

THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,219 81st YEAR

THURSDAY, MAY 5, 1960

PRICE 2/-

Down comes Chelsea Barracks ...

Owned and operated by R. Ashton and Sons (Stoke Newington) Ltd., this Blaw Knox "HYDRASCOOP" makes short work of demolition and clearance at Chelsea Barracks. The photograph shows it bringing down a two-storey guard-house. Its 360° swing and rapid dig-slew-discharge cycle is enabling the "HYDRASCOOP" to load rubble at a rate of 10 cubic yards in 3 to 5 minutes, giving fast truck turn-round and rapid site clearing.

Patents Pending



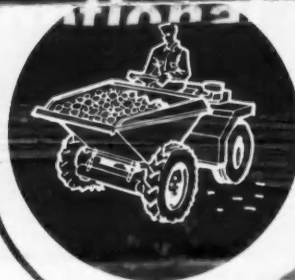
A sight to break a sergeant-major's heart

BLAW KNOX

BLAW KNOX LIMITED 90/94 BROMPTON ROAD, LONDON, S.W.3.

P23/5

International CONSTRUCTION EQUIPMENT



THE

GREENHAM

GROUP

A COMPLETE SERVICE FOR BUILDERS AND CONTRACTORS

GREENHAM PLANT HIRE LTD. LONDON · BIRMINGHAM · MANCHESTER · LIVERPOOL
ASHTON-UNDER-LYNE · AIRDRIE, SCOTLAND

GREENHAM EQUIPMENTS LTD. LONDON · VIKing 3651

GREENHAM TOOL CO. LTD. LONDON · ISL 4422 · BIRMINGHAM Aldridge 52881

GREENHAM SAND & BALLAST CO. LTD. LONDON · FEL 2285

GREENHAM TYRE CO. LTD. LONDON · HOU 7231

GREENHAM (EAST AFRICA) LTD. P.O. Box 3363 Nairobi, Kenya, B.E.A.

GREENHAM READY-MIXED CONCRETE LTD. LONDON · REN 6502



To meet the regulations governing the use of highway equipment in various parts of the world, International Construction Equipment can now be obtained in 'Federal Yellow'.

This new optional colour is available at no extra cost, and enables users of British-built International



YOUR **NEW** WHEEL LOADER

CATERPILLAR TRAXCAVATOR

944 A

with all the advanced
design features
you've always wanted



ASK NOW FOR A DEMONSTRATION IN YOUR LOCALITY
Detailed specification, price and delivery available on request.

Caterpillar, Cat and Traxcavator are Registered Trademarks of Caterpillar Tractor Co.

LEVERTON

YOUR CATERPILLAR DEALER

SPALDING

Spalding, Lincs. Tel: Spalding 3221

NEWCASTLE

Team Valley Trading Estate, Gateshead. Tel: Low Fell 78511

LEEDS

Gildersome, Leeds. Tel: Morley 4221

WIGAN

Wigan Rd., Bryn, Ashton-in-Makerfield.

Tel: Ashton-in-Makerfield

ROTHERHAM

Meadow Bank Rd., Rotherham. Tel: Rotherham 78259

See it at the
Mechanical
Handling
Exhibition,
Stands F & G

A
the
cal
ng
on,
G
erfield

4219

THE CONTRACT JOURNAL

INCORPORATING

THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

No. 4,219 81st YEAR

THURSDAY, MAY 5, 1960

PRICE 2/-

Down comes Chelsea Barracks ...

Owned and operated by R. Ashton and Sons (Stoke Newington) Ltd., this Blaw Knox "HYDRASCOOP" makes short work of demolition and clearance at Chelsea Barracks. The photograph shows it bringing down a two-storey guard-house. Its 360° swing and rapid dig-slew-discharge cycle is enabling the "HYDRASCOOP" to load rubble at a rate of 10 cubic yards in 3 to 5 minutes, giving fast truck turn-round and rapid site clearing.

Patents Pending



A sight to break a sergeant-major's heart

BLAW KNOX

BLAW KNOX LIMITED 90/94 BROMPTON ROAD, LONDON, S.W.3.

PRES

International CONSTRUCTION EQUIPMENT

now in the new optional colour

Federal Yellow

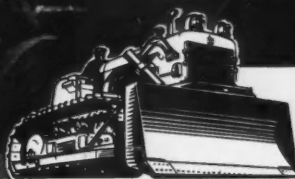


INTERNATIONAL HARVESTER COMPANY OF GREAT BRITAIN LIMITED • HARVESTER HOUSE

To meet the regulations governing the use of highway equipment in various parts of the world, International Construction Equipment can now be obtained in 'Federal Yellow'.

This new optional colour is available at no extra cost, and enables users of British-built International Construction Equipment to order their machines in either the distinctive 'International Red' or the new 'Federal Yellow', depending upon their individual requirements and fleet practice.

You may also specify 'Federal Yellow' for construction equipment ordered specially from the U.S.A.



International

CONSTRUCTION EQUIPMENT DEALERS IN G.T. BRITAIN AND N IRELAND

JAMES BOWEN & SONS LTD

EDINBURGH, GLASGOW & ABERDEEN

R. CRIPPS & CO. LTD

NOTTINGHAM, MANCHESTER & SHILDON

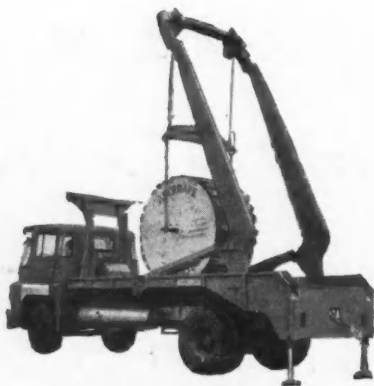
SAVILLE (TRACTORS) LTD

LONDON, STRATFORD-ON-AVON, CARDIFF & BELFAST

**WESTERN CONTRACTORS
SERVICES LTD**

BRISTOL

259 CITY ROAD • LONDON EC1



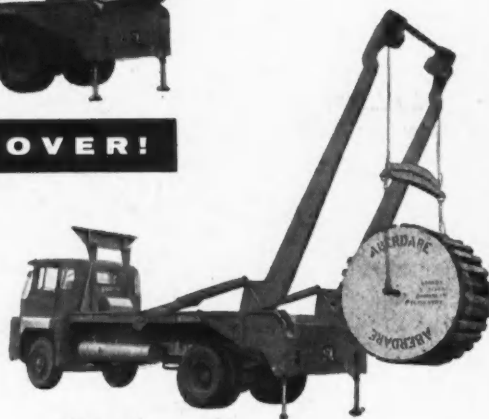
HARNESS UP!



SWING OVER!

... down in exactly the right place in 30 seconds under the fingertip control of the driver as he sits in his cab. Transformers, switchgear, etc., can just as easily be handled.

And the rapid movement and positioning of cables is only **one** of the increasing number of uses to which industry is putting the MARREL MULTI-CRANE UNIT.



and she's down...

CONTRACTORS use it for shifting gravel, ballast and a host of other materials.

RAILWAYS use it for quicker loading and unloading of heavy articles.

INDUSTRY THROUGHOUT THE WORLD is using it more and more for the easy handling of heavy, bulky and otherwise unwieldy loads.

MARREL Multi-Crane Unit



The model illustrated has especially been designed for Hellenic Communications, of Athens to handle 5 cable drums and is provided with a FORWARD-MOUNTED WINCH with a 5-ton pull hydraulically operated from the cab. Payload ... 7 tons. Trailer load ... 10 tons. Total: 17 tons.



AERO MAINTENANCE EQUIPMENT LTD

A member of the ARUSHA group of companies

12 BRUTON STREET • LONDON W.1

Smee's AM.3

Get on with the job fast —
with

PARKER

MOBILE CRUSHING PLANTS



'GRAVEL RANGER'

Outputs up to 300-tons an hour. Single-pass gravel crushing and screening plant in 8 sizes, the large size illustrated giving mixture of crushed gravel and sand, with excess sand screened off.

'ROCK RANGER'

A primary rock crushing plant, built in 6 sizes to give outputs up to 120-tons an hour. The 'Rock Ranger' meets the need for crushing large lump rock and gives an 'all-in' material; or it can be teamed with a 'Crush Ranger' for producing two or three separate products for roadstone or concrete aggregate.

'CRUSH RANGER'

Output up to 180-tons an hour. A complete rock or gravel crushing plant which delivers the screened material by side conveyors. It can give an 'all-in' material or up to three separate products ... sand, gravel mixed with sand, and sized gravel.



Get straight to the job with Parker Ranger Plants! These all-round time-savers give you a flying start when time is vital. They can be moved quickly from one working spot to another; are easily positioned on site, rapidly set-up. Built to stand up to high pressure work, these efficient and flexible plants are self-contained, yet can be teamed in various arrangements to meet special needs or increase their scope.

The 'Ranger' catalogue is available — Publication No. 530.

*Write for details
of the plants
that are
RIGHT ON the job!*

FREDERICK **PARKER** LIMITED

VIADUCT WORKS LEICESTER

PHONES: LEICESTER 62531 (10 LINES)

LONDON: STAFFORD HOUSE, NORFOLK STREET W.C.2

Depots at London, Cardiff, Sedgley (Nr. Wolverhampton), Glasgow and Leeds



PITTRAIL LIMITED

RAILWAY & GENERAL ENGINEERS

WE HAVE PLEASURE IN NOTIFYING YOU OF OUR

TOWER CRANE TRACK DEPT.

STRAIGHT & CURVED
TRACK

CALEDONIAN WORKS
ALDRIDGE
STAFFORDSHIRE
ALDRIDGE 52966-7-8

ALL TYPES OF RAILS AND SLEEPERS IN STOCK



**SURVEYS · CLEARANCE · WELDING
CUTTING · CONSTRUCTION
MAINTENANCE**

Teams of expert diver engineers with specialised equipment are on hand to operate anywhere in the United Kingdom . . . or the world. Write for full details, or put your problems direct. Diving Equipment, Welding Generators, Compressors and other plant for HIRE.

**UNDER WATER WELDERS
& REPAIRERS LTD.**

ROATH BASIN · CARDIFF

Telephone: 29631-2-3 (After Hours: Gobion (Mon) 200 or Penarth 58131)
London Office: 91 Princedale Road, London, W.11. Telephone: Park 4468



YOU



... cannot afford
to overlook the

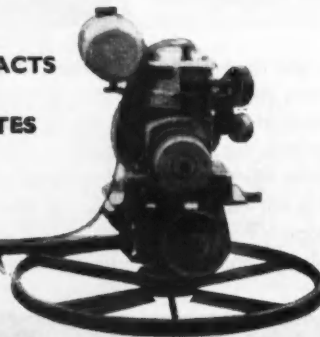
ALLAM

**ROTARY
FLOAT**

THE FLOAT WITH ALL THE ADVANTAGES, INCLUDING INTERCHANGEABLE DISC AND TROWEL ASSEMBLIES, POWER TAKE-OFF, etc.
NOT AVAILABLE ON ANY CONTEMPORARY MACHINE

And all British too!

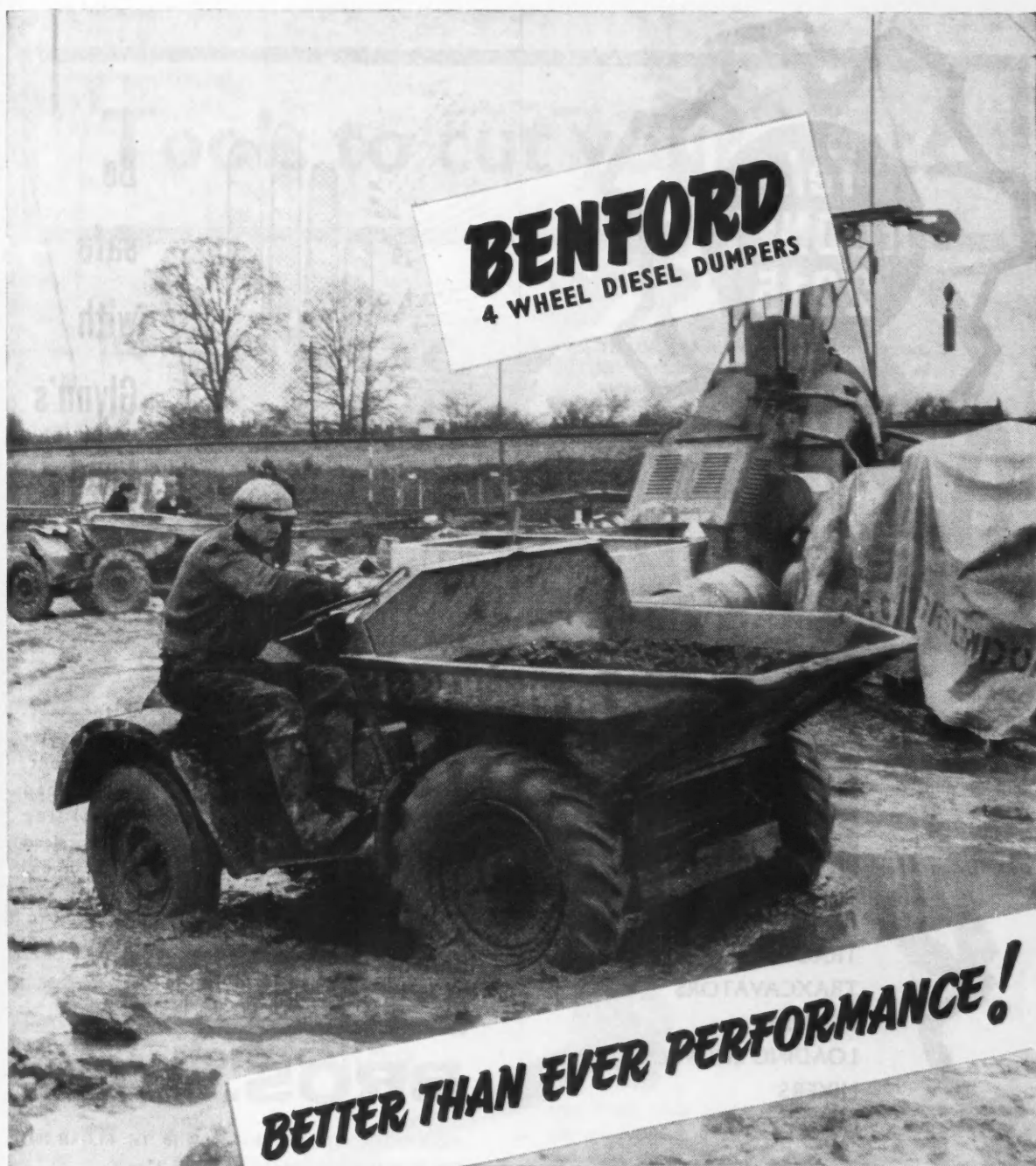
**SUITABLE
FOR ALL
FLOORING CONTRACTS
AND
OVERSITES**



E · P · ALLAM & CO. LTD.

132-135 SLOANE STREET, S.W.1. TELEPHONE: SLOANE 9976 (5 lines)
SCOTLAND: 39 CAVENDISH STREET, GLASGOW, C.5 TELEPHONE: SOUTH 0186

STRANGFORD, LTD., Belfast and Dublin.
A. GUNN AND CO., Altrincham, Cheshire.
O. L. DAVIES, Port Talbot, Glam.
J. LEWIS (MACHINERY), LTD., Burdlem,
Stoke-on-Trent.
G. B. CORNER AND SONS, Leeds and
Nottingham.
JOHN ROULSTONE, LTD., Newcastle upon
Tyne.
W. R. SELWOOD, Chandler's Ford, Hants.



BENFORD
4 WHEEL DIESEL DUMPERS

BETTER THAN EVER PERFORMANCE!

IMPROVED TRACTION & WEIGHT DISTRIBUTION ON ALL MODELS!

Benford Dumpers are now better than ever before — yet cost no more! Improved traction and weight distribution on all models have given them a better than ever performance.

For full details please write for our new catalogue and price list No. 6017

15 cwt. capacity — MARK 3
Water level 12 cu. ft. Struck level 15½ cu. ft.
Heaped 18 cu. ft. Skip loading height 39".

22½ cwt. capacity — MARK 7
Water level 18 cu. ft. Struck level 22½ cu. ft.
Heaped 27 cu. ft. Skip loading height 41".

30 cwt. capacity — MARK 12/30
Water level 24 cu. ft. Struck level 27 cu. ft.
Heaped 36 cu. ft. Skip loading height 44".

£330

Cash
Price
or

£33

down and 12 equal
monthly payments
of £24.9

£459

Cash
Price
or

£46

down and 12 equal
monthly payments
of £36.9.8

£615

Cash
Price
or

£62

down and 12 equal
monthly payments
of £48.17.8

DELIVERY FROM STOCK — CARRIAGE PAID IN ENGLAND AND WALES

BENFORD LTD.

THE CAPE

• WARWICK

• Telephone: WARWICK 21170



DIESEL DUMPERS



REVERSING DRUM MIXERS



TILTING DRUM MIXERS



POWER BARROW





PLANT HIRE

EXCAVATORS
TRACTORS
TRAXCAVATORS
DUMPERS
LOADING SHOVELS
MIXERS
COMPRESSORS

and all Contractors' Plant

All enquiries to . . .

COX OF CAMBERWELL
H. COX & SONS (PLANT HIRE) LTD.
33 Southampton Way, Camberwell, London, S.E.4



**The hire service
that never lets
you down**



There is no protection like lead for roofs and joints that are exposed to all weather conditions. Lead provides the perfect, permanent protection. We supply lead sheet, pipe and strip for all building purposes, antimonial sheet and pipe, lead tape, sash weights, etc., and chemical lead for special application.

GLYNN BROS. LTD.

PARK ROYAL RD., LONDON, N.W.10 Tel: ELGAR 7011
TRAFFORD PARK, MANCHESTER, 17.
Tel: Trafford Park 1444.

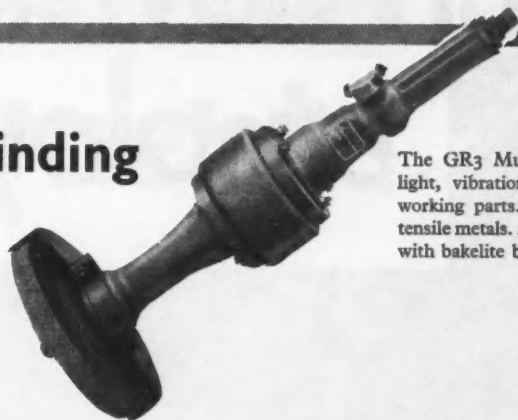
SOUTH WALES WAREHOUSE—
PENARTH RD, CARDIFF. (Tel: 22502).

Associated Company:
THE WEDNESBURY TUBE CO. LTD., BILSTON, STAFFS.

Manufacturers of:
SOLID DRAWN COPPER TUBES: PLASTIC TUBES
AND FITTINGS: STEEL TUBES AND FITTINGS: STEEL
TUBE FABRICATIONS: MALLEABLE TUBE FITTINGS.

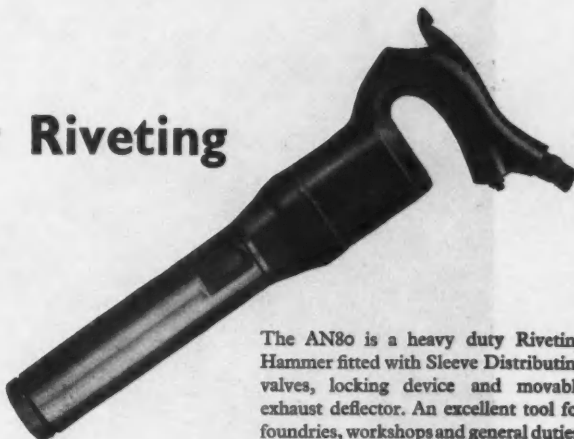
Tools to cut your costs

for Grinding



The GR3 Multi-Vane Grinder is compact, light, vibrationless and has a minimum of working parts. Fast cutting speeds on high tensile metals. 25 to 40% increased production with bakelite bonded wheels. A reliable tool.

for Riveting



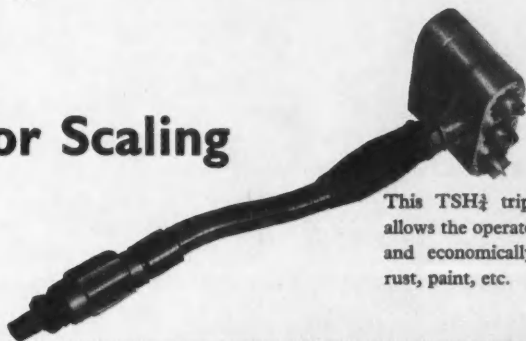
The AN80 is a heavy duty Riveting Hammer fitted with Sleeve Distributing valves, locking device and movable exhaust deflector. An excellent tool for foundries, workshops and general duties.

for Chipping



The DX5 Chipping & Caulking Hammers cover all normal requirements from heavy chipping to scaling. Designed for maximum performance, minimum air consumption and fatigue on operator.

for Scaling



This TSH2 triple headed Scaling Hammer allows the operator to cover large areas quickly and economically. Effectively removes scale, rust, paint, etc.

Speed work — Cut costs with

"BROOMWADE"

Air Compressors & Pneumatic Tools

YOUR BEST INVESTMENT

BROOM & WADE LTD., P.O. BOX No. 7, HIGH WYCOMBE, ENGLAND

Telephone: High Wycombe 1630 (10 lines)

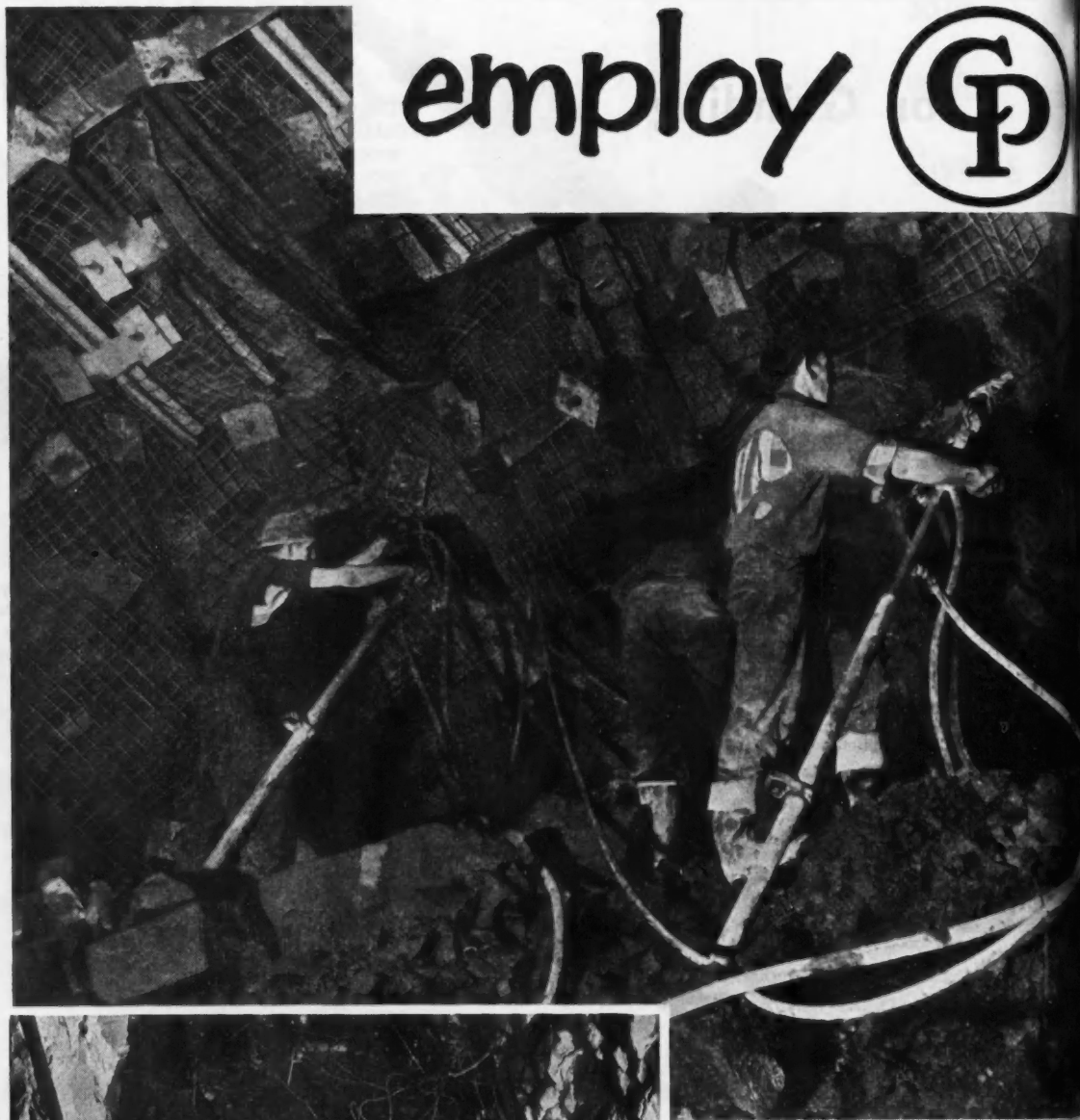
Telegrams: "Broom", High Wycombe (Telex)

714 SAS

On the New Forth Road Bridge

John Howard

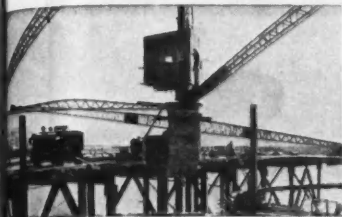
employ



These pictures illustrate the conditions of fissured rock with which the contractors were faced on constructing the anchorage tunnels. Roof bolting was adopted to deal with this problem.

(Above) drilling roof bolt holes.

(Left) looking down the anchorage tunnel. Consolidated Pneumatic rock drills, feed-legs, and impact wrenches were employed on these operations.



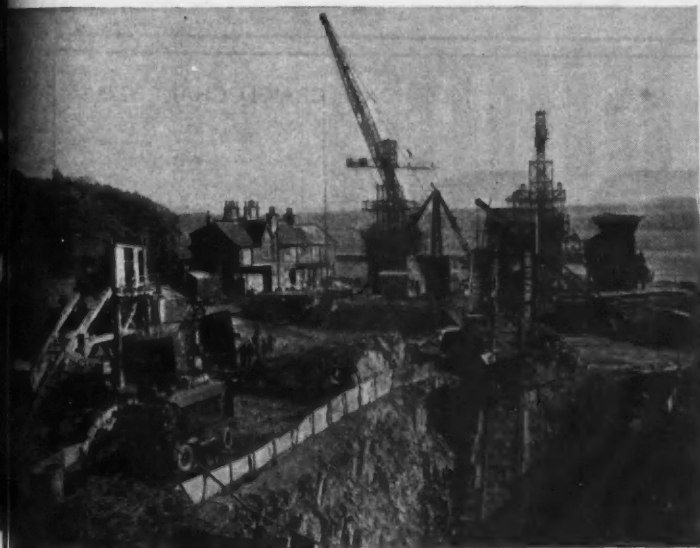
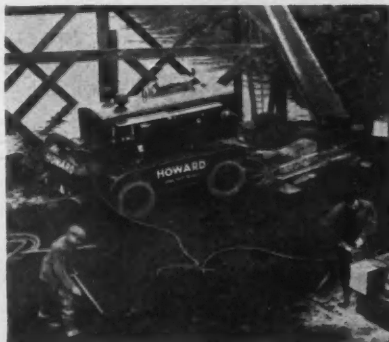
(On the left) Compressed air for all the preliminary operations is supplied from "Power Vane" Rotary Compressors shown in service in the pictures.

(Below) using a Consolidated Pneumatic Woodborer on timbering work and a CP Danarm Saw for constructing temporary piers.

Equipment...

Large-scale operations on the foundations, main piers and anchorage tunnels of the new Forth Road Bridge are now well under way. The first phase of this contract for one of Scotland's most important development schemes is being undertaken by John Howard & Co. Ltd., Civil Engineering Contractors of London. Some indication of the tunnelling conditions and problems of site preparation are illustrated in these photographs. The major part of this work involves compressed air for rock drilling, roof bolting, pumping and many other power tool jobs which abound on contracts of this nature. John Howard & Company are employing Consolidated Pneumatic equipment in large measure including compressors, rock drills, roof bolting tools, pumps and saws. The quality and performance of CP Contracting Equipment is, indeed, manifest by the good work it is doing on this and so many other big contracts.

Consulting Engineers: Mott, Hay and Anderson.



A general view of the site showing the anchorage tunnel entrances with a "Power Vane" Rotary Air Compressor feeding rock drilling operations below.

Consolidated Pneumatic



CONSOLIDATED PNEUMATIC TOOL CO LTD · DAWES ROAD · LONDON · S.W.6

Affiliated and Subsidiary Companies throughout the World.

CP/213



For Hire to Contractors



A large and comprehensive fleet of plant, in first-class condition, supported by a field maintenance service second to none. Thus, your worries are over when you

HIRE FROM ALLEN



Our fleet of machines consists of powered and towed graders, mobile and tracked excavators, grass rollers, sheepfoot rollers, road rollers of all types—6½ cwt. to 16 cwt. vibratory and 2½ tons to 10 tons tandem and three-wheel, compressors, mixers, pumps, dumpers, etc., etc.



May we have YOUR enquiries?

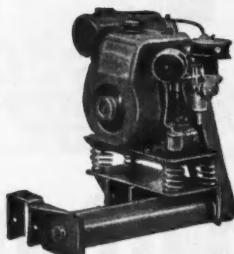
JOHN ALLEN & FORD
(Oxford) LTD.
Long Lane, Littlemore, OXFORD
Tel: 78241/2/3
Wokingham Depot Tel: 75



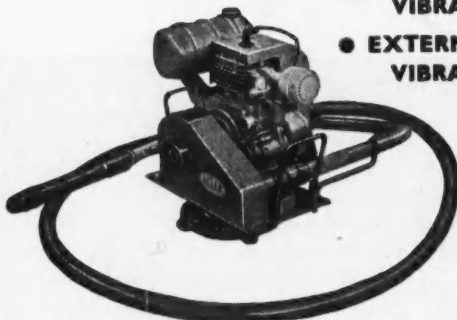
ALLAM

HIRE FROM
THE MAKER

- VIBRATING TAMPERS
- PAN VIBRATORS
- BAR CROPPERS
- ROTARY FLOATS
- LIFT & FORCE PUMPS



- INTERNAL VIBRATORS
- EXTERNAL VIBRATORS



HIRE WITH OPTION TO PURCHASE

ALLAM MACHINERY HIRE LTD.

132-135 SLOANE STREET, S.W.1 Telephone: SLOane 9976 (5 lines)
SCOTLAND: 39 Cavendish Street, Glasgow, C.5 Telephone: South 0186

TELEGRAMS: BYCO, EDINBURGH

TELEPHONE: CRAIGLOCHART 5225/6

BYARD (ENGS.)

SIGHTHILL INDUSTRIAL
ESTATE

EDINBURGH

MANUFACTURERS OF :—

LARGE BORE STEEL PIPES

FOR

**SEWAGE, WATER, GAS, OIL
AND FOUNDATION PILING**

— OTHER PRODUCTS —

STAINLESS STEEL
FABRICATIONS

PIPEWORK INSTALLATIONS
FOR CHEMICAL, OIL,
NUCLEAR & GAS INDUSTRIES

PRESSURE VESSELS,
STORAGE TANKS AND
ALL PLATE ASSEMBLIES



Thwaites

DEPENDABILITY

SPELLS

POPULARITY



Thwaites dumpers are built to a rugged specification to give reliable, low cost service under all conditions. Factory Backed same day not some day service.

DUMPER

SPECIALISTS

THWAITES ENGINEERING CO. LTD.
CUBBINGTON . LEAMINGTON SPA
Telephone: 3089



JCB

The JCB logo is rendered in a bold, three-dimensional, blocky font. It is contained within a white rectangular sign with rounded corners and a black border. The sign is mounted on a thick black pole that extends diagonally from the bottom left towards the top right. The background of the advertisement features a large, thick, black brushstroke that curves around the sign and the text, creating a sense of motion and energy.

**LEADING
THE
OF THE**


our unit sale
has increased by



**SALES PROVE
SUPERIORITY
TEAM**



110% in the past 12 months

THOUSANDS OF SATISFIED  USERS
HAVE PROVED FOR THEMSELVES
WHY NOT JOIN THEM?

This BIG NEW **BRITISH BUILT** **DROTT**

*FOR GREATER PRY-OUT
force and big production*



The NEW
B.20-K3
(3cu.yd.bucket)
4 in 1 bucket also
available



INTERNATIONAL
DROTT

**BRITISH BUILT big powerful model
of this world famous—best selling
dozer skid shovel**

SAVILLE

A Company of the LUMLEY-SAVILLE Organisation.

(TRACTORS) LIMITED

STRATFORD-ON-AVON

Telephone: 4242 (15 lines)
Telex. Birmingham 31633

LONDON

Tel: ASHFORD (Middx.) 4191 (10 lines)
Telex. London 24117

CARDIFF

Tel: CARDIFF 33572/3
Telex. Cardiff 49250

BELFAST Telephone: DUNMURRY 2511 (4 lines)



IRELAND: Sole Distributors for INTERNATIONAL HARVESTER, J. H. SAVILLE & CO. LTD. Tel: DUBLIN 373606 (5 lines)

THE D.5. DUMPER



THE CHASESIDE 'HI-SPEED' D.5. dumper is a true dumper with features that cannot be compared with those of dumper substitutes and a performance, in conditions calling for a dumper, which is quite unbeatable.

It is unequalled in its class for payload, manoeuvrability and speed over the roughest ground. The 'HI-SPEED' has been designed and built to have tremendous strength and lasting reliability.

The 'HI-SPEED' has a struck capacity of 3.4 cu. yd. (4.5 cu. yd. heaped), two-way steering and equal speeds in each direction.

WRITE TODAY FOR AN ILLUSTRATED DESCRIPTIVE BOOKLET

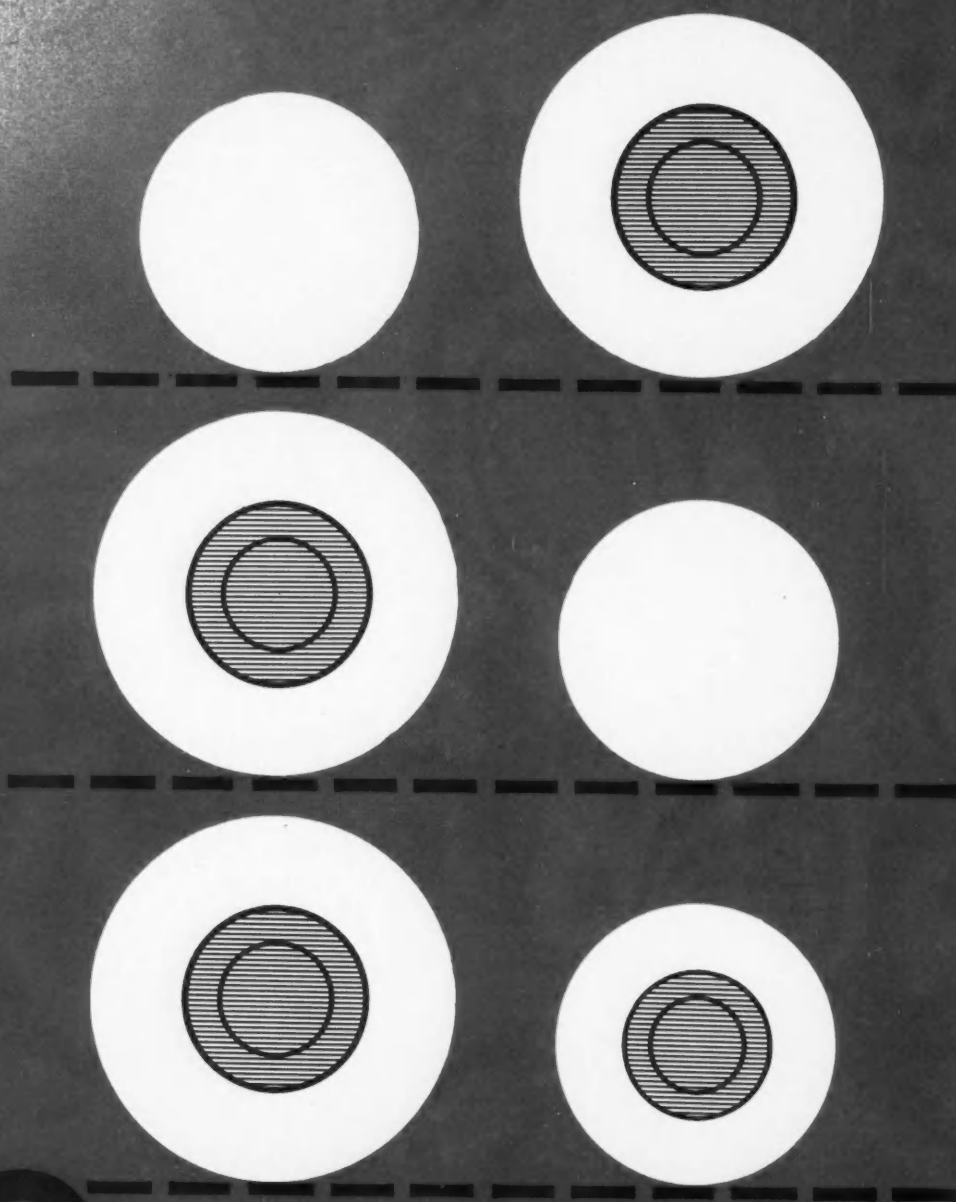
CHASESIDE

CHASESIDE ENGINEERING CO. LTD.

(A subsidiary of British Northrop Limited)

STATION WORKS - HERTFORD - HERTS.

Telephone: HERTFORD 3113 Telegrams: CHASESIDE, HERTFORD



3 ENTIRELY NEW LOADERS

by

Muir-Hill
Regd.

BUILT BY BOYDELL

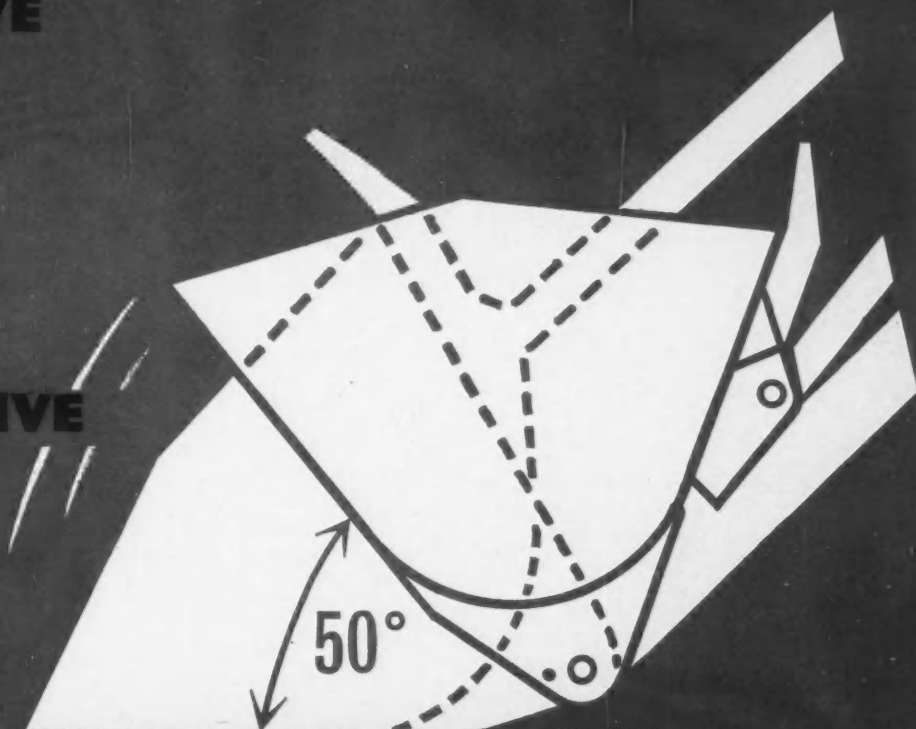
ALL WITH 50° ROLL BACK!

REAR DRIVE

RD2

FRONT DRIVE

FD2



4 WHEEL DRIVE

FD4

These powerful new machines offer the most advanced characteristics of any Loaders in their respective classes—send the coupon now!

POST THIS NOW!

To **E. BOYDELL & CO. LTD., OLD TRAFFORD, MANCHESTER 16**
Telephone: **TRAFFORD PARK 1641**

Please forward without obligation advance details of the machines indicated below

Name..... Position.....

Company.....

Address..... CJ936

PLEASE MARK



RD2

FD2

FD4

Ring MACaulay 2233 first for

all Plant Hire

Youngman

CONTRACTORS' PLANT DIVISION

W.C. Youngman Limited, Wandsworth Works,
Wandsworth Road, London S.W.8.



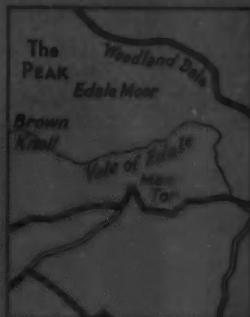
Vales of England

The Vale of Edale, Derbyshire

A broad and smiling vale through which the little River Noe wanders, gathering on its way countless mountain streams. Mighty hills surround it... the Kinder Range with Groundslow Knoll and Ringing Rover, Brown Knoll and Man Tor and Lose Hill... names to remember with longing and affection by all who have visited this lovely Vale.

But when you are thinking of PLANT HIRE

... the 'Vale' to remember is



VALES PLANT REGISTER LTD

14 LOWER GROSVENOR PLACE, VICTORIA, LONDON, S.W.1

VICTORIA 3501, 7531, 8080, 9886 (15 lines)

WATFORD WORKS: COW LANE, GARSTON, WATFORD

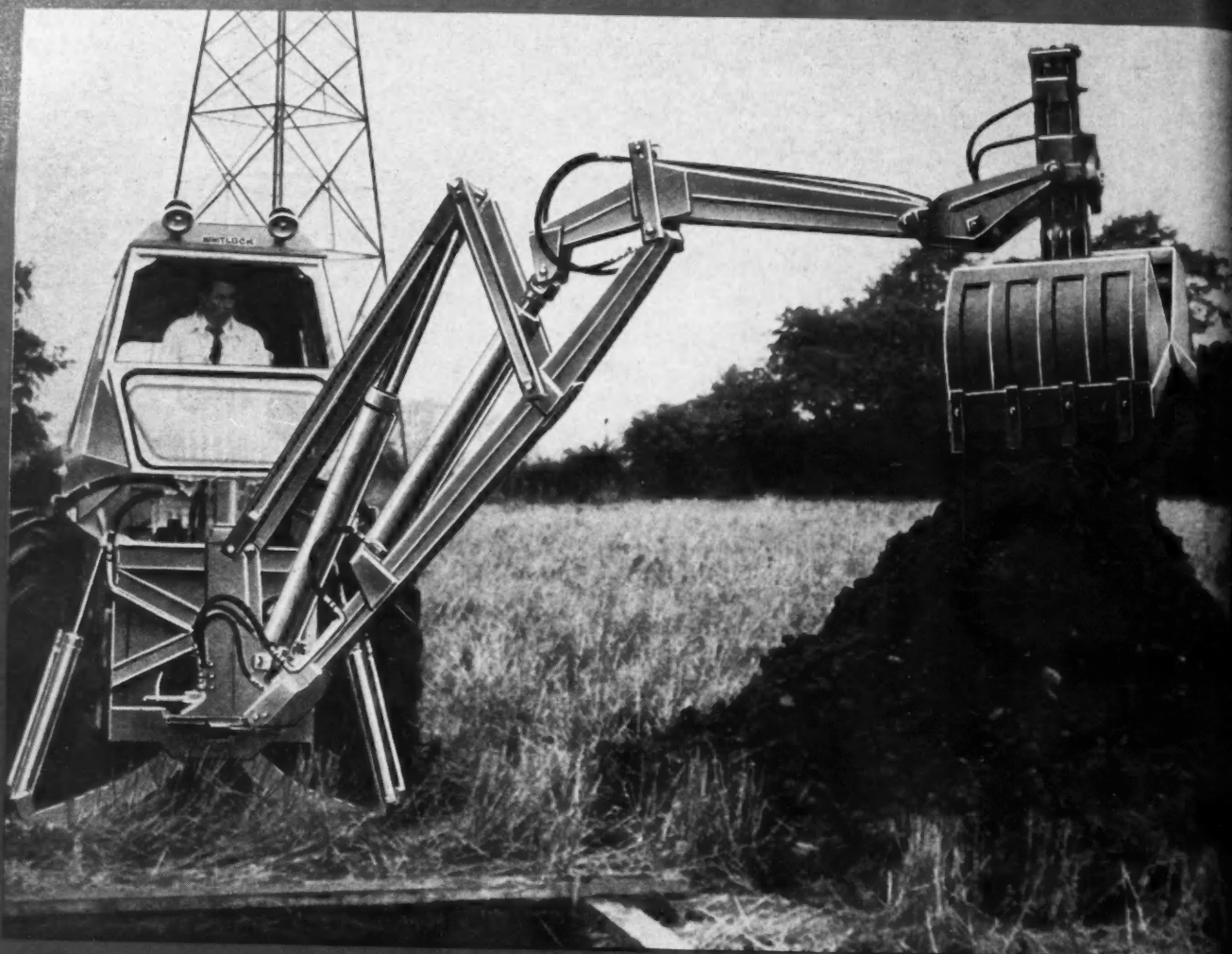
GARSTON 3766/7/8

SPECIALISTS IN PLANT HIRE FOR NEARLY 40 YEARS

VALES PLANT HIRE...

any plant
...anywhere

RIGGED ... RELIABLE...



The Dinkum Digger "Major" is no ordinary Excavator. One glance at its purposeful lines, wide range of attachments and first-class finish will confirm this. Jump into its comfortable cabin and see how instantaneously the finger-tip controls respond to the touch—how quickly the surging power of its advanced hydraulics cuts through the toughest earth. And with its high mobility and Power Shovel it not only Digs, Strips and Loads, but is one of the most economical and popular Excavators in the World. A Real Dinkum!

WHITLOCK

DINKUM **DIGGER MAJOR**

Send for illustrated literature and name of nearest Dealer

WHITLOCK BROS LIMITED

Est. 1899

GREAT YELDHAM ESSEX

SOLE MANUFACTURERS
TEL. GT. YELDHAM 305

REALISTIC



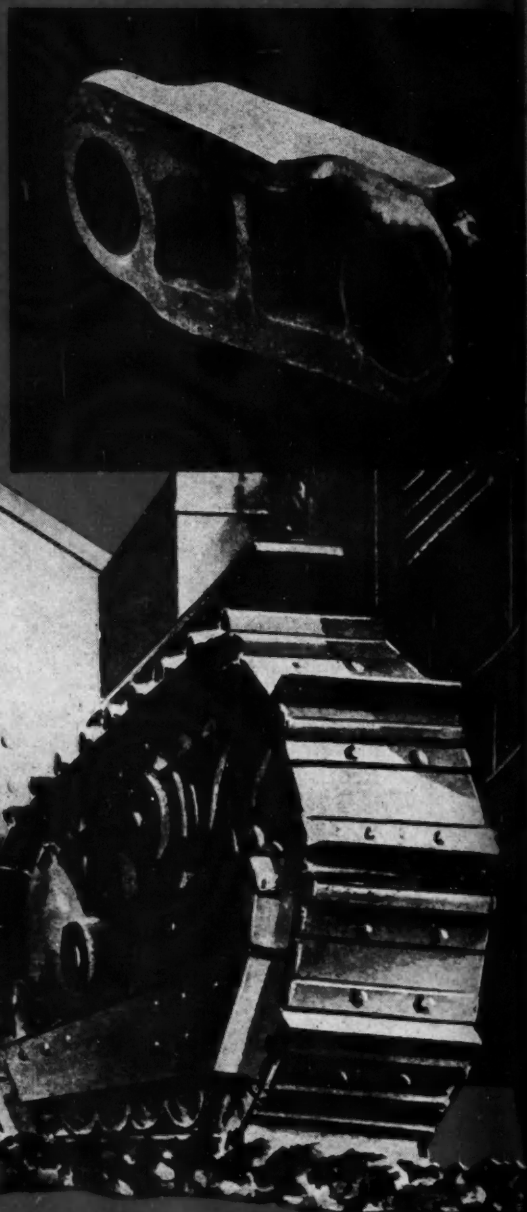
... **.. POWER GRAB**

*As good
as new...
but
much
less
costly*

It's true Dilloway-reconditioned equipment is even a bit as good as new and costs much less. By employment of skilled craftsmen with years of experience, and the use of the best quality materials obtainable, we offer the finest reconditioning service available anywhere. We handle ALL types of plant and equipment and shall be delighted to quote you entirely without obligation. *Our own transport will collect and deliver.*



By appointment
to H. M. the Queen
Agricultural Engineer



DILLOWAY

P. W. DILLOWAY LIMITED

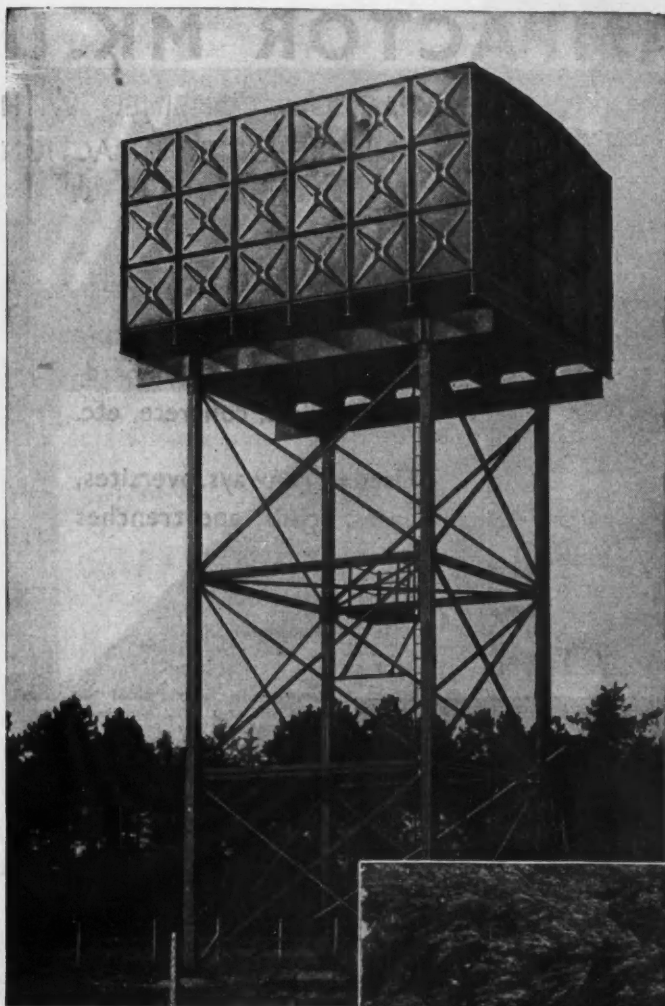
reconditioned

Head Office and Works :
Southall, Middlesex.
Tel : Southall 6511

Scottish Office and Works :
32 Burnfield Road, Giffnock, Glasgow
Tel : Giffnock 1125-6

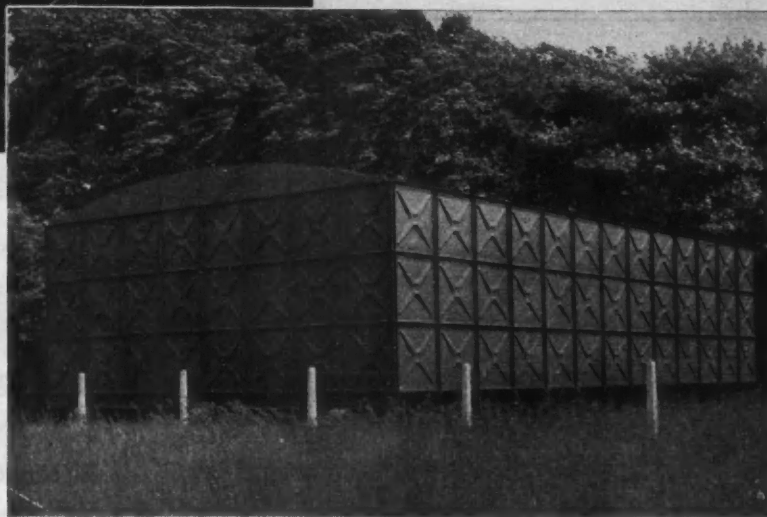
West Country Office and Works :
Bishopstainton Road, Teignmouth, Devon
Tel : Teignmouth 1325

RECONDITIONING OF ALL TYPES OF PLANT AND EQUIPMENT



Braithwaite
**PRESSED
STEEL
SECTIONAL
TANKS**

Braithwaite Pressed Steel Tanks with external flanges throughout comply with British Standard 1564: 1949. The sectional method of construction enables tanks with an unlimited range of capacities to be provided. Suitable for the storage of most liquids and viscous substances, they can be economically transported and erected in positions inaccessible to other forms of construction. They can also be increased in size when additional capacity is required. Illustrated brochure will be sent on application.



Selling Agents

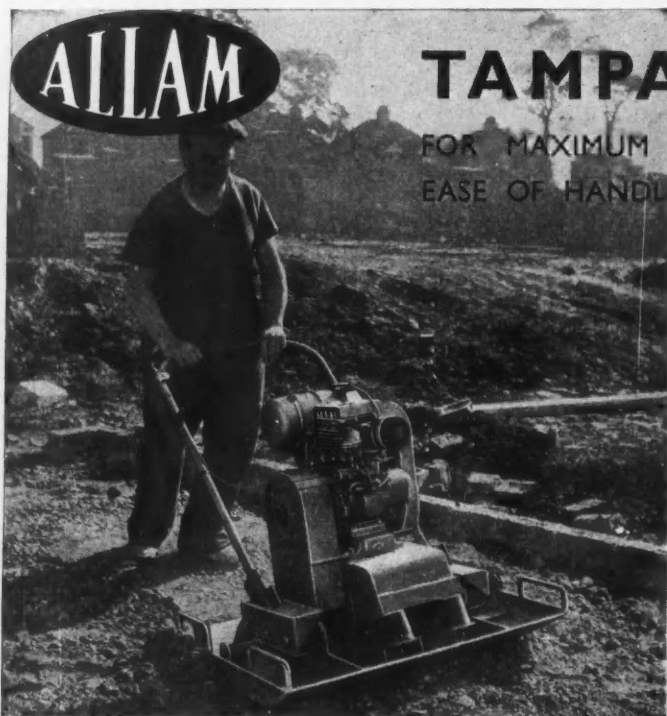
THOS. W. WARD LIMITED

ALBION WORKS • SHEFFIELD

TELEPHONE: 26311 (22 LINES) • TELEGRAMS: "FORWARD • SHEFFIELD"

LONDON OFFICE: BRETTENHAM HOUSE • LANCASTER PLACE • STRAND • W.C.2

87/25.



ALLAM

TAMPACTOR MK.II

FOR MAXIMUM COMPACTION COMBINED WITH
EASE OF HANDLING AND SIMPLICITY IN ACTION

An All-British compacting
machine suitable for hard-
core, ballast, concrete, etc.

Used on runways, oversites,
areas, roads, and trenches

E. P. ALLAM & CO. LTD.

132-135 SLOANE STREET, S.W.1. TELEPHONE: SLOANE 9976 (5 lines)
SCOTLAND: 39 CAVENDISH STREET, GLASGOW, C.5 TELEPHONE: SOUTH 0186

STRANGFORD, LTD., Belfast and Dublin.
A. GUNN AND CO., Altrincham, Cheshire.
O. L. DAVIES, Port Talbot, Glam.
J. LEWIS (MACHINERY), LTD., Burslem,
Stoke-on-Trent.
G. B. CORNER AND SONS, Leeds and
Nottingham.
JOHN ROULSTONE, LTD., Newcastle upon
Tyne.
W. R. SELWOOD, Chandler's Ford, Hants.



Want to branch out?

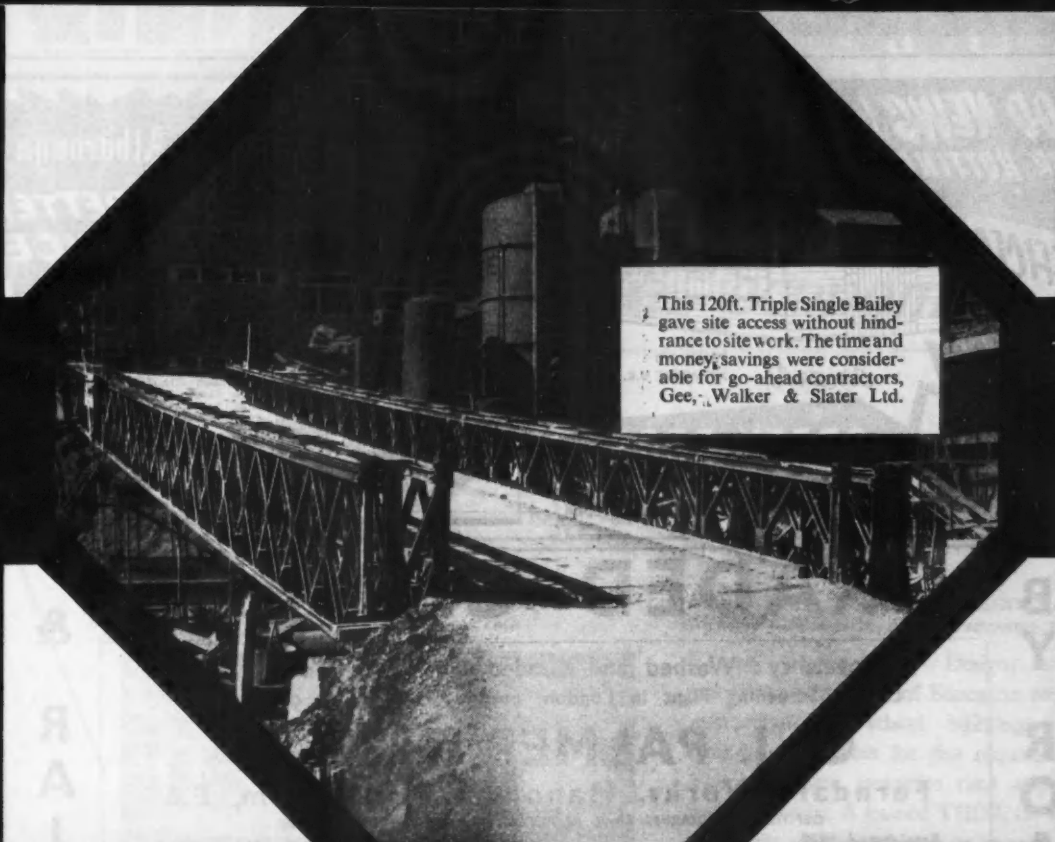
There is a tide in the affairs of
every business.
There comes a moment when
you *must* expand if you're to
keep pace with your competitors.
That's where UDT comes in.
UDT helps you replace old
equipment, add new, out of in-
come. Which often means it pays
for itself out of increased profits.
A nice businesslike way to
do business.
If you think UDT could help
you, get in touch with the
Manager of your nearest UDT
office—the address is in your
local directory.

**United Dominions Trust
(Commercial) Limited**

United Dominions House,
Eastcheap, London EC3

This BRIDGE costs 7d.

PER FOOT PER DAY TO HIRE



This 120ft. Triple Single Bailey gave site access without hindrance to site work. The time and money savings were considerable for go-ahead contractors, Gee, Walker & Slater Ltd.

**Into the site without obstructing work
Out of the contract months ahead of schedule**

BAILEY BRIDGING for sale or hire



MANCHESTER: Broughton 3959

MABEY & JOHNSON LTD

54 VICTORIA ST. · LONDON · S.W.1

Tel: VICTORIA 8025 (6 lines)

Works at Hatfield and Watford

FOR HIRE

Excavators, $\frac{1}{2}$ to $\frac{3}{4}$ cu. yd., and equipments.
40-h.p. to 104-h.p. Diesel Crawler Tractors, with Hydraulic Angledozer equipment.
3 cu. yd. M.R. Diesel Dumpers, front control.
1yd. Diesel Dumpers.
Weatherill Loading Shovels.

FOR SALE

Fowler VF Diesel Crawler Tractor, with or without Hydraulic Angledozer equipment.
Excavator Equipments; Priestman - Panther Skimmer and Backacter Equipments.
Specialists in Priestman Universal Excavator and all equipments. Hire, Hire with Option to Purchase, Sale, Part Exchange and Overhauls.

WILLIAM JONES LTD.

ADAM HOUSE • 1 FITZROY SQ., W.1. Telephone: EUSTON 7871 (7 lines)

RAILS-SLEEPERS EVERYTHING FOR SIDINGS

Write to

WHITES
of Widnes

Estd. 1869

R. WHITE & SONS (Engineers) LTD., P.O. BOX 2, WIDNES, LANC.
 Telegrams: "RAILS, WIDNES". Telephone: WIDNES 2423 (Three lines)

GOOD NEWS for CONTRACTORS
 YOUR HUTTING PROBLEMS SOLVED!



OFFICES
CANTEENS
SITE HUTS

Consult **GREEN BROS**

PRICES D/D ANYWHERE U.K.

Tel: 224 (BRANDON) LTD • BRANDON • SUFFOLK



For prefabricated outbuildings you can't beat Alborough's range and Alborough's service (free erection within 75 miles London).



Alborough
THE BETTER SERVICE

All-purpose Buildings, Garages, Multiples, Coal Bunkers — these are Alborough's leading specialities. Let us send you our latest catalogues.

Alborough COAL BUNKERS, prefabricated in a range of sizes from 5cwt. to 30cwt. store and dispense all forms of solid fuel and are made to stand years of hard service.

A.B.C.D. (Raynes Park) LTD.
 34/35 Alpha Road, Surbiton, Surrey.
 Tel.: ELMbridge 6691/3.

**B
Y
R
O
A
D**

GRADED CLINKER

**&
R
A
I
L**

Speciality: Washed and Graded Clinker Filter Media
 Largest Screening Plant in London, output 100,000 tons per annum

G. J. PALMER & SONS

Ferndale Works, Manorway, East Ham, E.6

DEPOTS AND WHARVES: BARKING, POPLAR AND KINGSTON-ON-THAMES

Established 1869

Ring Albert Dock 3464 (4 lines)

ASHES & BREEZE

HIRE

SOUTHALL 5601/2 & 3814
 SOUTHAMPTON 48864



COMPRESSORS
 Portable
 Mobile
EXCAVATORS
TRACTORS
TRACTOR SHOVELS
DUMPERS
MIXERS
RAMMERS

SALES

SERVICE & SPARES

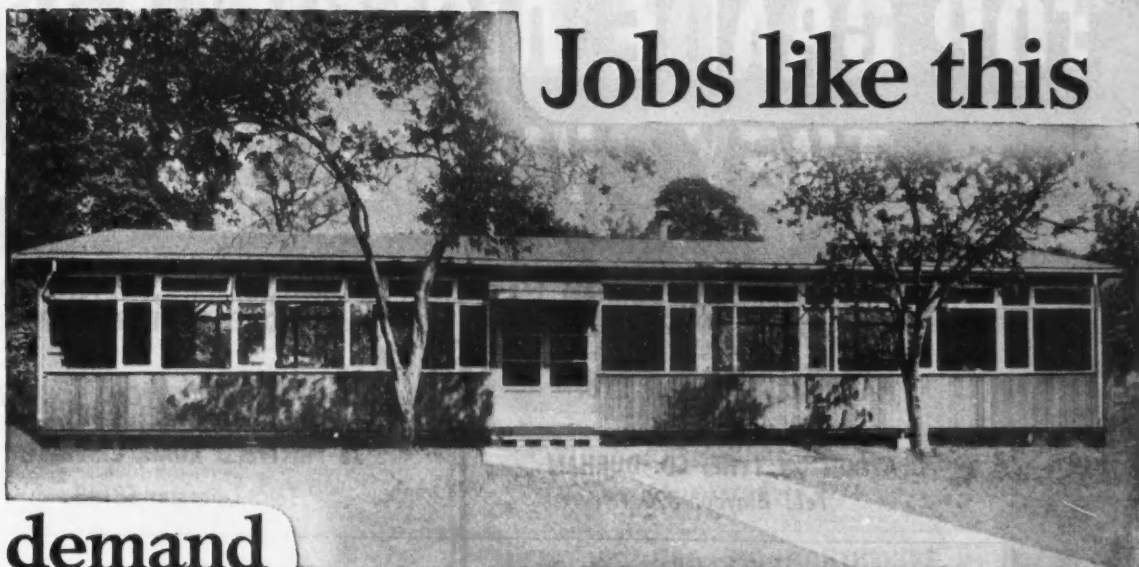
Distributors
BARFORD
 "75" & "150".
DUMPERS
 and
 full range of
MIXERS



THE WESTERN HIRE Co. Ltd.

CANAL YARD, HAYES ROAD, SOUTHALL, MIDDX
 101-103 STATION ROAD, SHOLING, SOUTHAMPTON

CASE RECORDS FROM THORNS' FILES—2

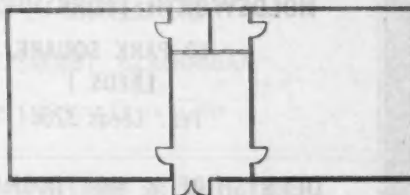


Jobs like this

demand

versatility... speed... economy...

SPECIFICATION
 A timber building to form two classrooms, each 24' x 24'. A store room for each classroom and a cloak bay to house 80 coat pegs. A timber floor and flat ceiling providing space for electric lighting. The building to be based on a panel unit, capable of being dismantled and removed to another site in approximately two years' time. Erection to be carried out by supplier on a prepared foundation.



Photographs by
 courtesy of the
 County Architect,
 Gloucestershire
 County Council.



FAIRFORD FARMOR'S SECONDARY MODERN SCHOOL, near Cirencester, Glos.

Thorns' Contemporary Design, which conforms to Ministry of Education recommendations for school buildings, was eminently adaptable for this requirement. The consequent saving in time and cost was substantial. A trained THORNS' team was ready to start erection as soon as the foundations were completed.

The size agreed upon was 60' x 24' x 8' 6" eaves. Walls were clad with vertical tongued and grooved boarding of Western Red Cedar with building paper behind, and lining of hardboard and insulation board.

Partitions, similarly lined, were fitted to plan.

The floor was constructed of tongued and grooved boards on joists, with sleeper plates. Rain-water goods were included in the contract.

THORNS

THORNS' prefabricated sections, as used at Fairford Farmor's School, are available on a 6' multiple basis. All or any part of the construction work is undertaken by THORNS, at the client's request. Catalogue of designs and prices on request. Ask THORNS to quote for your own job.

J. THORN & SONS, LTD. (Dept. 73), BRAMPTON ROAD, BEXLEYHEATH, KENT

BD 505

TOP GRADE DISTRIBUTORS

THEY ONLY RECOMMEND

SERVICE FIRST

NORTHUMBERLAND, DURHAM, CUMBERLAND & WESTMORLAND

MARSHALL BRANSON LTD.
CHAIN BRIDGE ROAD,
BLAYDON ON TYNE, CO. DURHAM
Tel : Blaydon 390

YORKSHIRE

HOLDSWORTH (YORKSHIRE) LTD.
10 PARK SQUARE,
LEEDS 1
Tel : Leeds 32861

DERBYSHIRE & NOTTINGHAMSHIRE CHESHIRE, LANCASHIRE & N. WALES

**QUARRY PLANT HIRE SERVICE
(NORTH WEST) LTD.**
FIELD ROAD, WALLASEY, CHESHIRE
Tel : New Brighton 1333

STAFFORDSHIRE, SHROPSHIRE WARWICKSHIRE & WORCESTERSHIRE

**WALSALL PLANT HIRE
(SALES) LTD.**
115 WALSALL ROAD, ALDRIDGE, STAFFS.
Tel : Aldridge 52421

LEICESTERSHIRE, RUTLAND & NORTHAMPTONSHIRE

**GROCOCK & DAY
(PLANT HIRE) LTD.**
26 MAYFIELD ROAD, LEICESTER
Tel : Leicester 58148

NORFOLK

RUYP (PLANT HIRE) LTD.
ST. GEORGES WHARF,
NORWICH, NORFOLK
Tel : Norwich 23133

SUFFOLK, HUNTINGDONSHIRE & CAMBRIDGESHIRE

**THOMAS C. STEWART
(CONTRACTORS) LTD.**
NEWMARKET ROAD,
BURY ST. EDMUNDS, SUFFOLK
Tel : Bury St. Edmunds 2987

ESSEX

SYMES (PLANT SALES) LTD.
ONGAR ROAD, BRENTWOOD
Tel : Brentwood 2116

BEFORE BUYING AN EXCAVATOR

A *DINKUM*

FOR A TOP GRADE MACHINE AND SELL THE BEST

**HERTFORDSHIRE, BUCKINGHAMSHIRE
BEDFORDSHIRE & MIDDLESEX East of A5**

CHASESIDE MOTOR COMPANY LTD.

CASTLE STREET, HERTFORD

Tel : Hertford 2456

KENT & EAST SUSSEX

TOWNSEND (AYLESFORD) LTD.

**MAIDSTONE ROAD,
BRIDGEWOOD, KENT**

Tel : Chatham 61333

SURREY & MIDDLESEX West of A5

RICHARD S. EDRIDGE & CO.

WARLINGHAM, SURREY

Tel : Upper Warlingham 14

OXFORDSHIRE & BERKSHIRE

OXFORD PLANT LTD.

BOTLEY, OXFORD

Tel : Oxford 49911

**WEST SUSSEX, HAMPSHIRE, WILTSHIRE
DORSET, SOMERSET, DEVON & CORNWALL**

WILLIAM R. SELWOOD LTD.

**CHANDLERS FORD,
HAMPSHIRE**

Tel : Chandlers Ford 2275

**HEREFORDSHIRE, MONMOUTHSHIRE,
& SOUTH WALES**

O. L. DAVIES LTD.

PORT TALBOT, GLAMORGAN

Tel : Briton Ferry 3266

GLOUCESTERSHIRE & BRISTOL

PLANT REPAIRS (BRISTOL)

FOX ROAD, BRISTOL 2.

Tel : Bristol 57327 and 56009

SCOTLAND

REEKIE PLANT COMPANY

**SOUTH ROAD, CUPAR,
FIFE**

Tel : Cupar 2445

**SERVICE
FIRST**

ASK ANYONE OF THESE FOR DEMONSTRATION

—still the
**WORLD'S
FASTEST
SELLING
PROP**

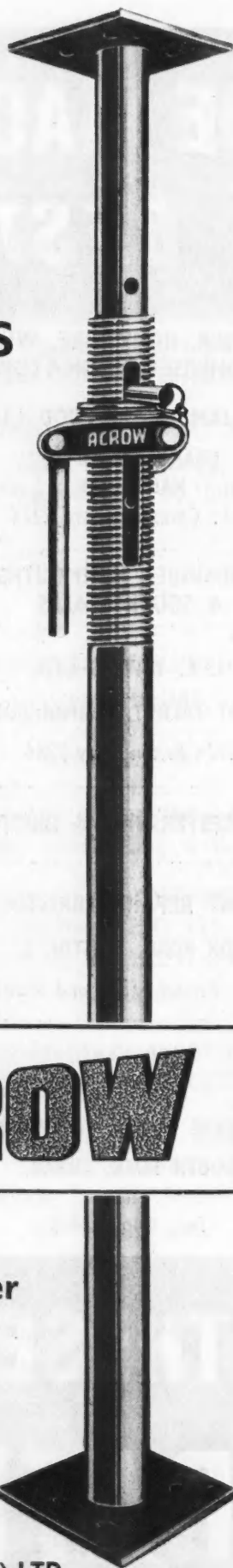
—and still
the best
that money
can buy

ACROW

Now well over
4,000,000
in use

Sale
or Hire

ACROW (ENGINEERS) LTD.,
South Wharf, London, W.2. Tel: AMBassador 3456 (20 lines)



YOU'LL FIND ME
in all the best joints



says **SNODDY**



'LEAD WOOL' makes the best joints — the strongest and the most durable pipe joints for water, gas and sewerage mains. Cold caulking with 'Lead Wool'—produces solid joints which will stand higher pressures and far greater vibration than molten lead joints. It is in every way the 'best joint' for both large and small diameter pipes.

*Everything for pipe
jointing: Spun Yarn,
Leaded Yarn, Lead
Wire and Tape,
Caulking Tools. Pipe
Testing Equipment,
Plugs, Flanges and
Pumps. Air
Compressors.*

THE LEAD WOOL CO LTD
SNODLAND KENT

Phons: Snodland 516-7 Grams: Strength Phone Snodland

CATERPILLAR

NOW INTRODUCES

**THE
NEW DESIGN
IN
WHEEL
LOADERS**



CAT 944A TRAXCAVATOR

with Power Shift Transmission

This new 2 cu. yd. Cat 944A Traxcavator introduces to the field important features combined into a single unit unmatched by any other wheel loader now available—packing speed, production and versatility—designed, tested and built in the Caterpillar tradition of

quality, long life and ease of operation Optional working attachments include—2 cu. yd. Side Dump Bucket, 3 cu. yd. Light Material Bucket, 2 cu. yd. Quarry Bucket—establishing the 944A Traxcavator as the undisputed leader in the Wheel Loader field.

Caterpillar, Cat and Traxcavator are Registered Trademarks of Caterpillar Tractor Co.

Your authorised Caterpillar dealer in Scotland . . .

CALEDONIAN

TRACTOR AND EQUIPMENT CO., LTD.

RIGBY STREET, GLASGOW, E.1 Tel: BRIdgeton 5221-5 • BRANCHES AT PERTH & SELKIRK



HYDRADIGG/LOADALL 65



SALES & SERVICE

SERVICE ENGINES (NEWCASTLE) LTD GREAT LIME RD WEST MOOR NEWCASTLE-UPON-TYNE 12 ☎ 665405

J. A. STEWART (PLANT) LTD MILNBANK WORKS TOWNMILL ROAD GLASGOW E.1 ☎ BRIDGETON 4441

A. GUNN & CO LTD ATLANTIC STREET WORKS BROADHEATH ALTRINCHAM CHESHIRE ☎ 2747

BRISTOL PLANT HIRE LTD BATH ROAD BRISTOL 4 ☎ 70321



you can take a **tunny**
anywhere !

A 2 ton "tunny" will slew through an arc of 300 degrees, is safe on the road at 30 m.p.h. and will travel easily across rough country.

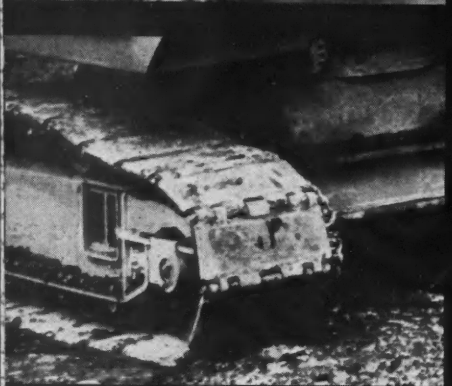
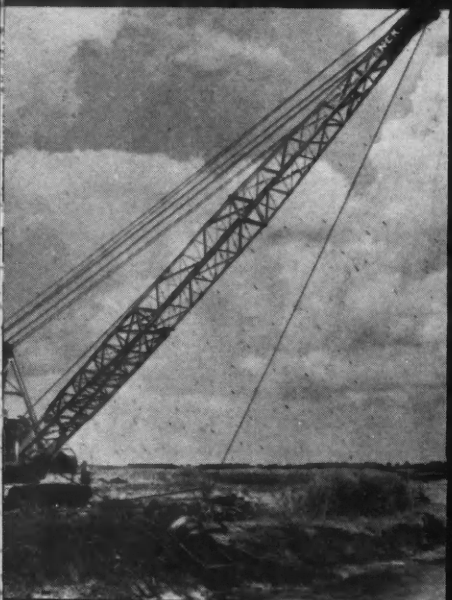
It is ideal for working in confined spaces and will also do many jobs usually handled by a much larger crane.

The "tunny" has only three controls and maintenance costs are extremely low. You'll find it one a real investment.

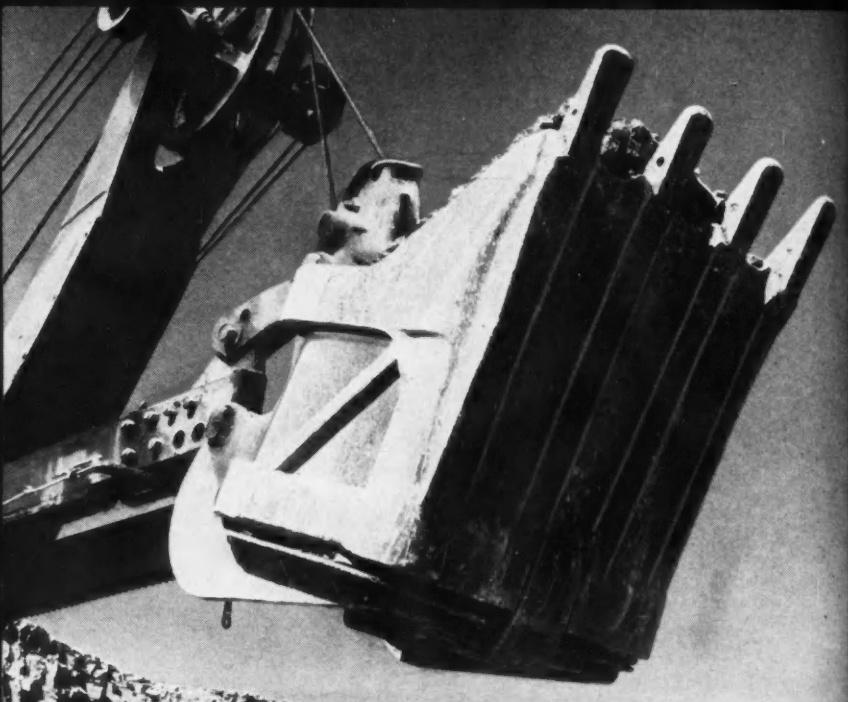
Write now for leaflet giving full details.

CRIPPS
for **tunny**
cranes

R. CRIPPS & CO. LIMITED • NOTTINGHAM: TEL: 71161 • MANCHESTER: TEL: TRAFFORD PARK 1658



NCK RAPIER



**Get NCK-Rapier
—and get on with the job**

FACESHOVELS • DRAGSHOVELS • DRAGLINES • SKOOPERS

from 3/8 cu. yd. to 4 cu. yd. capacity—plus an unbeatable range of
extra-long-boom cranes up to 56 tons capacity.



Get NCK-RapieR machines. They're tough. They work *fast*. Never let you down. Give them *any* job. You get it done *just* as you want it, *when* you want it. Superb front-end equipments to suit every need. And you can specify the engine . . . Rolls-Royce, Dorman, A.E.C., Cummins etc. NCK-RapieR machines are unbeatable.

NCK-RAPIER LIMITED, 32 VICTORIA STREET, LONDON, S.W.1

Telephone: Abbey 6738/9 Cables: Excasales, London • A Newton Chambers Company

Economy in a Big way!



Here is rugged strength to overcome the roughest, toughest conditions . . . tread patterns scientifically designed for every sort of operation . . . built-in dependability to keep your machines always on the job. You can rely on the DUNLOP Earthmover range of tyres to give you the utmost in long, trouble-free service. Whatever your machines and your operating conditions, there are tyres in the Dunlop range specially built to do a first-class job for you!

DUNLOP

TYRES

- built better to last longer !

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPULINS, ETC.

NOTICE.—Orders for advertising are accepted on the understanding that the Editor may make any alterations in an advertisement to ensure its conformity with the style and standards of "The Contract Journal." The Proprietors reserve the right to suspend, cancel or refuse an advertisement without making any reason. No undertaking is given that an advertisement will be published on any specified date. Communications which are not actual replies to the advertisement will not be forwarded. The Proprietors reserve the right to open communications and to withhold those not in accordance with this rule.

SCAFFOLD FITTINGS in makes S.G.B., Mills, Burton and Big Ben, etc., including Double Couplers, Swivel Couplers, Putlog Clips and Joint Pins, from 2 1/2" each. All fully overhauled and in ready for work condition.

PLANT AND BUILDING EQUIPMENT, LTD., Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATTERSEA 9213.

C. EVANS AND SONS, LTD., have available from stock over 250,000 SCAFFOLD COUPLERS, including Burton Little Giants, Norstel, Big Ben, SGB Boulton, M.A.C., Mills and No Bolts. Send for our detailed lists.

Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVANCE 5691/2/3.

FOR SALE: Large Quantity of Pressed Steel SECTIONAL TANKS, 4ft. x 4ft. x 4ft., complete with bolted cover and hinged manlid. Supplied dismantled in plates 4ft. x 4ft. x approx. 1/2 in. thick. Delivery ex stock. — **THE MIDLAND IRON AND HARDWARE CO. (CRADLEY HEATH), LTD.**, Cradley Heath, Staffs. Tel.: Cradley Heath 66364-S-6.

SLEEPERS. 100 tons Crossing Sleepers, from 9ft. to 13ft. lengths.

J. A. K. SHEPLEY AND CO. LTD., 6 Meadow Street, Manchester, E.1. ARDWICK 2256.

STEEL-FRAMED BUILDINGS for SALE, 8ft. to 40ft. clear width, as workshop, storage, hangar buildings, etc.—Please write details of requirements: **BELLMAN HANGARS, LTD.**, Hobart House, Grosvenor Place, London, S.W.1.

FOR SALE: NISSEN HUTS, Galvanised Sheeted, 36ft. long x 16ft. wide, at £75 each. DITTO, Black Iron Sheeted, at £65 each.

F. JAMES & SONS, Newport Pagnell, Tel. 18 and 19.

PODMORE WORKS



SITE HUTS

FROM STOCK
PHONE: WIMBORNE 7622

700-773, GARRATT LANE, SW17

RELAYABLE & ROADWAY SLEEPERS

CROSSING TIMBERS

ALL LENGTHS

Delivery ex stock

JOSEPH STANDISH Ltd
Hunslet, Leeds 9

Tel: 21491

TARPULINS

NEW, GREEN, ROT-PROOFED, BEAMS DOUBLE-SEWN WITH BEST LINEN THREADS, REINFORCED BRASS EYELETS, SPLICED ROPES

Weight after proofing:

	(24oz.)	(22oz.)	(18oz.)
Size approx.	JUTE	FLAX	C. DUCK
12ft. x 9ft. ..	62 17 0	63 18 0	64 4 0
15ft. x 9ft. ..	63 12 6	64 17 6	65 5 0
15ft. x 12ft. ..	64 15 0	66 10 0	67 0 0
18ft. x 12ft. ..	65 14 0	67 16 0	68 8 0
18ft. x 15ft. ..	67 2 6	69 15 0	70 10 0
20ft. x 15ft. ..	67 18 6	70 17 6	71 13 6
24ft. x 18ft. ..	71 18 0	73 12 6	75 16 0
30ft. x 21ft. ..	81 12 6	83 15 0	87 10 0

EX-GOVERNMENT, RECONDITIONED	
10ft. x 7ft. ..	41 5 0
10ft. x 10ft. ..	42 0 0
14ft. x 10ft. ..	43 10 0
15ft. x 12ft. ..	44 10 0
20ft. x 10ft. ..	44 18 6
18ft. x 12ft. ..	45 5 0

GENUINE EX-RAILWAYS, RECONDITIONED	
10ft. x 7ft. ..	41 4 0
10ft. x 10ft. ..	41 18 6
14ft. x 10ft. ..	43 15 0

All sheets are eyeleted and roped.
Immediate delivery — Carriage paid.
Money refunded if not satisfied.

MORELAND TRADING Co. Ltd. (CJ)
25 St. Pancras Way, London, N.W.1

Telephone: WIMBORNE 4210 and 4281

SITE GOODS.—RAILWAY SLEEPERS, sound, second-hand 1-50, 11/3 each; S1-100, 11/3 each; 100 and over, 10/9 each. Collected ex yard, 10/9. **SOMMERFIELD TRACK ROLLS**, 25yd. long x 10ft. wide. M.S. rods, 9in. centres, £12 10s. per roll. **TARPULINS**, second-hand, overhauled, ropes and eyelets: 18ft. x 12ft., £6; 18ft. x 15ft., £6 15s.; 24ft. x 15ft., £10.

A. F. SIMPSON, LTD., 68/70 Penge Road, South Norwood, S.E.25. Telephone: SYDENHAM 3131 (3 lines).

POLYTHENE SHEETING (British Visqueen).—Protect your work, plant and machinery the modern way—500 gauge, clear, 12ft. x 150ft. rolls, at £13 14s. 6d. each. 500 gauge, black, 12ft. x 150ft. rolls, at £15 19s. each. 1,000 gauge, clear, 10ft. x 75ft. rolls, at £11 6s. each. Complete lists and samples from **H. C. HILL, LTD.**, 68-70 Penge Road, South Norwood, S.E.25. SYDENHAM 3131-4.

WANTED. STEEL ROUNDS, SECTIONS, CORRUGATED SHEETS, Steel and Alloy SCAFFOLDING, FITTINGS, SCAFFOLD BOARDS. Large and small quantities permanently required. Attractive prices, good payments, rapid decisions. **E. H. CHURCH AND CO. (EDMONTON), LTD.**, 68/70 Penge Road, S.E.25. Tel.: SYDENHAM 3131

GREASE GUNS, heavy duty, 70 per cent. off list price. Tecaimit, 29 1/2oz. flexible tube, hexagon head, hand lever operated. Brand new condition, 60/- each, six at 55/-, 20 at 48/- Hydraulic head, 10/- extra.

CROMWELL CO., Newport, Mon. 59045.

GALVANISED WIRE NAILS, new/unused. Low price to clear: 1 1/2in. x No. 12, 500lb.; 3 1/2in. x No. 7, 6,000lb.; 1 1/2in. x No. 15, 43,000lb. **BUTLER TRADING (SOUTHEAST), LTD.**, 80 Marmion Road, Portsmouth. Telephone 25244/5.

WANTED. Alloy and Steel TUBULAR SCAFFOLD, in large quantities only. Sites cleared anywhere. Also NON-MECHANICAL BUILDER PLANT. Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVANCE 5691/2/3.

FOR SALE. Stanley A68 BUILDERS' THEODOLITE (new July, 1959). Also Two A500 Stanley DUMPY LEVELS.

Write Box M.1810, "The Contract Journal."

NEW TARPULINS

EXACT SIZES ONLY

JUTE, 16oz. before green wax proofing: 12' x 9' each 66/6, 15' x 12' each 100/6, 18' x 12' each 118/6, 21' x 15' each 156/6.

FLAX, 16oz. before green chemical proofing: 12' x 9' each 87/6, 15' x 12' each 139/6, 18' x 12' each 156/6, 21' x 15' each 218/6.

COTTON DUCK, 14oz. before green wax proofing: 12' x 9' each 90/6, 15' x 12' each 148/6, 18' x 12' each 174/6, 21' x 15' each 252/6.

BRAND NEW SHEETS, carriage paid England and Wales. Fitted ropes. Brass eyelets and strengthening patches.

ANY QUANTITY FROM LONDON STOCK

JOHN MACNAMARA & CO. LTD.

Bush Road, Deptford, London, S.E.8 BER 3275-1435

Order your

HARDCORE from MACNOR

Anywhere in the South of England

RELIABILITY · CONTINUITY · PUNCTUALITY

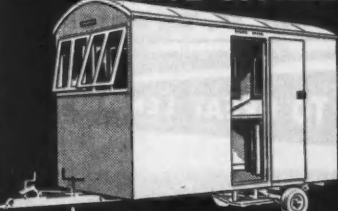
MACNOR BUILDING SUPPLIES LTD

87 BRIXTON HILL · LONDON · S.W.2

Tel. 5444

Tel. 2964

WHITLOCK MOBILE SITE OFFICES



WHITLOCK BROS LTD · GREAT YELDHAM ESSEX · Tel. 305

CAST-IRON SPIGOT and SOCKET PIPING, mostly new, standard lengths. Immediate delivery. 16in. bore, 100ft. 9in. bore, 500ft. 15in. bore, 100ft. 8in. bore, 500ft. (Screwed Gland). 12in. bore, 500ft. 6in. bore, 500ft. 10in. bore, 100ft.

CAST-IRON FLANGED, mostly new. 15in. bore, 11 x 12ft. lengths. 10in. bore, 300 x 12ft. lengths. Stanton. 8in. bore, 200ft. in 4/9ft. lengths. 5in. bore, 500ft. in 6/9ft. lengths. 4in. bore, 500ft., chiefly 9ft.

Also large selection BENDS, SLUICE VALVES. Full details on request.

FRED WATKINS (ENGINEERING), LTD., Coleford, Glos.

CIRCULAR TIPPING SKIPS, 2 1/2 cu. ft. to 2 cu. yd. CONCRETE POURING SKIPS also available. For SALE and HIRE.

PLANT AND BUILDING EQUIPMENT, LTD., Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATTERSEA 9213.

HARDCORE and PITCHING.—Unlimited quantities of Cold Blast Slag available in the Midlands, for road works and filter media.

NEWBY WEARING, LTD., Parkdale, Wolverhampton. Telephone 20914.

TIMBER.—RAILWAY SLEEPERS, 6in. x 10in. x 5in. WAGON SOLEBARS, 15ft. x 12in. x 5in. SLEEPER POSTS, RAILS and SPARS. Send for detailed price list.—**FOSTER AND CO.**, 5A Eldon Chambers, Wheeler Gate, Nottingham. Telephone 45131.

TARPULINS for SALE and HIRE. **EDWARD ASH, LTD.**, Kent Wharf, Cresside, Deptford, S.E.8. Telephone: Tideway 2661/2.

STEEL SECTIONS and PLATE, etc. Cut to your specification. New and second-hand material available.—**TEMPLE MILLS (STEEL), LTD.**, Temple Mills Lane, Stratford, E.15. Maryland 2660/7734.

FOR SALE: SCAFFOLD MATERIALS. For keen prices, service and quality.

Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVANCE 5691/2/3.

STEEL FENCING STAKES, CHAIN LINK, etc. **E. STEPHENS AND SON, LTD.**, Bath Street, E.C.1. Tel.: CLE. 1731.

P. T. READ LTD.

have now removed to larger premises at

GALES GARDENS, BETHNAL GREEN, E.2

Telephones: Shoreditch 9128/9

GRANITE SETTS

DELIVERED ANYWHERE

HARRIS & BAILEY LTD.

CROYDON

ADDISCOMBE 3181 Ref: Mr. T. A. Jones

STEEL TRENCH SHEETING

TRENCH STRUTS

Write for Leaflet REV 6

MABEY

MABEY & JOHNSON LTD

54, VICTORIA ST., LONDON, S.W.1.

Telephone: VICTORIA 8026 (6 lines)

MANCHESTER: Broughton 3359

Dai5560CJ

FENCING

W. A. SKINNER

& CO. LTD.

LONG DITTON, SURREY

Phone: EMBROOK 1940-1941

SUPPLIED AND ERECTED IN ANY DISTRICT

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPULINS, ETC.

FOR temporary roadways and compound fences, **C. EVANS AND SONS, LTD.**, offer Sommerfeld TRACK, 500 rolls, each 25yd. x 10ft., interlaced at 9in. centres with 1/2in. M.S. rod; and Pierced Steel TRACK (airfield strip), standard 10ft. x 16in. x 1/2in. First-class, re-layable. Contact: **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

AEROPLANE HANGARS and **LARGE SHEDS**, new and S/H, up to 150ft. clear span. Ex stock. For immediate delivery and erection.—**WESCOIL**, Lumbrook Mills, Northwram, Halifax. Telephone: Halifax 68168.

TRENCH SHEETS, 6ft. to 12ft. **STRUTS** also available. For SALE and HIRE. **PLANT AND BUILDING EQUIPMENT, LTD.**, Chalfeld Works, 1 Chalfeld Road, Battersea, London, S.W.11. Telephone: BATTERSEA 9213.

FOR SALE: 6,000 RAILWAY SLEEPERS. Guaranteed Grade 5 Suitable for slage roads, buildings, bridges, machinery, etc. — Write, 'phone or call: **JOHN HILROY AND CO.**, 290 Shirley Road, Southampton. Telephone: 16430.

FOR SALE, 2,000 Heavy Iron-bound TIMBER DECK PANELS, 3ft. 10in. x 2ft. 7in. x 2in. thick, weight 104lb. each. Superior to sleepers. Price 8/- each. Photograph available.—**HARFORD ENGINEERING CO., LTD.**, Whiting Road, Norwich.

FOR SALE: PUTLOGS. Steel and Alloy, 5ft. and 6ft. Large stocks always available. Contact: **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

LATTICE STEEL ERECTION MASTS (Light and Heavy), 30ft. to 150ft. high, for immediate HIRE.—**BELLMAN'S**, 21 Hobart House, Grosvenor Place, S.W.1.

TARPAULIN HIRE
JOHN MACNAMARA & CO. LTD.
BUSH ROAD, LONDON, S.E.8
BERMONDSEY 3275 & 1435

RAILWAY SLEEPERS

10,000 in stock
BEFORE ORDERING RAILWAY MATERIALS OF ANY KIND
WRITE OR TELEPHONE:

E. L. PITT & CO. (Coventry) Ltd.
BRACKLEY TOWN STATION,
BRACKLEY, NORTHANTS
Telephone: BRACKLEY 2271/2
Telex: 83159

SPECIAL OFFER OF LARGE SIZE TUBE

10in. Tube in lengths up to 40ft.
12in. Tube in lengths up to 40ft.
14in. Tube in lengths up to 20ft.
15in. Tube in lengths up to 20ft.
16in. Tube in lengths up to 40ft.
18in. Tube in lengths up to 25ft.
20in. Tube in lengths up to 20ft.

All of these sizes can be supplied plain ends or flanged.
Also in stock a quantity of 24in. Tube, flanged in lengths of approximately 24ft.

Large stocks of smaller size Tube always available.

MIDLAND IRON & HARDWARE CO. (Cradley Heath), LTD.,
CRADLEY HEATH, STAFFS

Telegram: Pipes, Cradley Heath

Telephone: Cradley Heath 64364-5-6

ELECTRICIANS.—Send for details **SHAFTESBURY LIGHTWEIGHT "BANTAM" LADDERS.** Top section fitted with patent MOULDED RUBBER BLOCKS, eliminate possibility of scratching or marking walls, fascias and other painted or highly polished surfaces. Also available for immediate delivery: **STEPS, PLATFORM STEPS, TRESTLES, TELESCOPIC TRESTLES, POLE and BUILDERS' Type LADDERS**, and all sizes of Two and Three Section EXTENSION LADDERS.

SHAFTESBURY LADDERS, LTD. (C.I.).
453 Katherine Rd., London, E.7. Grangewood 3363-4.

FOR SALE, 10,000 Mills Pattern ex Government Type 90° DOUBLE COUPLERS, only once used, 2/6 each in our yard. First come—first served. Telephone or write: **HANTS. AND DORSET PLANT HIRE CO., LTD.**, 865 Ringwood Road, West Howe, Bournemouth. Telephone: Northbourne 837.

FOR SALE, 70,000 Mills ex Government Type 90° SCAFFOLD COUPLERS in stock, 3/- each. Carriage paid up to 150 miles for orders of 100 or more. **T. LEAVESLEY, LTD.**, Airewas, Staffordshire. Telephone: Airewas 354/5/6.

FOR SALE: EVANS OF BOW offer from stock 2,000 "H" FRAMES, 4ft. 6in.; also ADJUSTABLE JACKS. All in first-class condition. Contact: **C. EVANS AND SONS LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

SLEEPERS for access roads and all purposes. **TIMBERS** for shoring, piling boards and walling. Consult us first. **TILLEY (WOLVERTON), LTD.**, Wolverton, Bucks.

NEW ROADFORM PINS for SALE. Made to your specifications, 1in. or 1 1/2in. dia.—**TEMPLE MILLS (STEEL), LTD.**, Temple Mills Lane, Stratford, E.15. Tel.: Maryland 2660/7734.

SECTIONAL TIMBER BUILDINGS

For quality with economy, buy "MIDDLESEX"
Standard size range from 8' x 6' to 100' x 30'

J. E. LESSER & SONS LTD.
GREEN LANE HOUNSLOW, MIDDLESEX
Telephone: HOUNSLOW 7281/7

HIGH GRADE CLINKER ASH

Available Barnsley, Yorks. area
for collection or delivered Road
or Rail.

Apply:

GRANT, LYON & CO., LTD.
SCOTTER ROAD, SCUNTHORPE
Telephone: 2308

PILE DRIVING • DIVING

Piling Work carried out afloat and on shore in London and Home Counties.
Crane Barges and Heavy Lifting Equipment for hire.

Diving carried out with expert divers using modern equipment.

Underwater Cutting and Welding Work a speciality.

PILING AND PLANT HIRE CO. (KENT) LTD.

Abbeydale Road, Wembley, Middlesex
Perivale 4471/73

SCAFFOLDING, etc., for SALE at LOW PRICES—EXCELLENT CONDITION. **SCAFFOLD FITTINGS**—FULLY RECONDITIONED or selected second-hand condition—all makes available. Putlog Couplers from 2/-; Double Couplers from 3/-. Used Steel and Alloy Scaffolding TUBE and PUTLOGS. Used SHORING, PROPS and TRENCH STRUTS. Good used SCAFFOLD BOARDS and Scaffolding FRAMES. **SOULSBY AND CO.**, 87 Deans Lane, Edgware, Middx. Telephone: MILL Hill 4644 (or NORTH 4112).

FOR SALE. Quantity of Victrola PIPE FITTINGS, including Bends, Tees, Reducers, Adaptors, Crosses, Blanks, Elbows, etc., Sizes 2in. to 6in., grooved and shouldered type.—**CYMRIC TRADING CO., LTD.**, Pwllmelin Road, Llandaff, Cardiff. Tel. 73318.

STEEL PANELS for roadways or concrete reinforcement. 15-gauge bridge rails riveted back-to-back, forming panels 11ft. x 6ft., with 2 1/2in. square apertures, weight 154lb., unused. Good condition, 30/- each.—**MOLE AND BRAY, LTD.**, Stourport-on-Severn. Telephone 2361.

NEW BOARDS, selected 9in. x 1 1/2in., cornered and bound, ex works.—Contact: **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Telephone: ADVance 5691/2/3.

MOBILE LIVING UNITS AND OFFICES built to specification for Home and Overseas contracts. Write **TRAILER HOMES, LTD.**, Shannon Corner Kingston By-pass, New Malden, Surrey.

WANTED, large quantities of ex W.D. or ex R.A.F. WOODEN HUTTING SECTIONS, or complete CAMP SITES PURCHASED for removal. Distance no object.—Write Box M.1536, "The Contract Journal."

MUCK SHOOTS in Mill Hill and Southgate, London. For details, 'phone Bowes Park 2402.

SLEEPERS

For temporary roads, 10in. x 5in. section, 8ft. 6in. lengths, also other grades. **CROSSING SLEEPERS** from 9ft.-13ft. lengths. **TARPAULINS**, Jute, Cotton Duck and ex Railway, in all sizes.

S/H TIMBER: Spars, Boards, Joists and Baulks.

JAMES SHEPLEY,

73 Boodle Street, Ashton-under-Lyne, nr. Manchester.
Telephone: Ashton-under-Lyne 1213.

GUYREX FORMWORK**STEEL OR PLYFACED**

Complete schemes with quotations submitted against your enquiries.
Sale or Hire. Write or Phone

GUYREX EQUIPMENT LTD.
25 CRAVEN ST., LONDON, W.C.2
Telephone: Whitehall 2445

Tarpaulins

Most sizes and types are stocked and special tarpaulins can be made to individual specifications. Excellent materials and fine workmanship. Wholesale only
AS GOOD AS A ROOF

Please write to Tarpaulin Department
SINGLETON, FLINT & CO., LTD.
NEWLAND WORKS, LINCOLN
Phone: 24542 (2 lines) Grams: Singleton Lincoln

Genuine Bargains in Ex-Gov. Recond.**PLAN CHESTS**

Double Elephant size. Softwood, reconditioned. Rich brown finish.
6 Drawer .. £20 15 0
8 Drawer .. £23 0 0
10 Drawer .. £28 0 0
Carriage £1 10 0



Enquiries invited for plan chests—steel, oak or mahogany, new or reconditioned

4-DRAWER FILING CABINETS
Poolcap, plywood panels. Finished rich brown shade. Reconditioned
£6 15 0 Carriage 15/- extra

FOLDING FORMS
Sound, well made. 6ft. x 10in. 17/6
Carr. Paid

FOLDING TABLES from 27/6. **FOLDING CHAIRS** 12/6, and many more bargains in Office Furniture, Racks, Benches, Cupboards, Lockers, etc
Write for Illustrated Lists

Bloom & Spivack (Furniture) Ltd.,
138 Old Street, London, E.C.1. CLE 0138

YOUNGS FENCING

ALL TYPES SUPPLIED
FIRST-CLASS ERECTION SERVICE
Phone: ORPINGTON 26641 (3 Lines)

YOUNGS OF ORPINGTON LTD.
211-215 HIGH ST., ORPINGTON KENT

Harlow Bros. GO TO GREAT LENGTHS

All Harlow Huts are constructed from selected timbers and are unusually robust for constant use. Standard sizes from 8' x 6' to 100' x 24' and larger. Built in units that can be added or deducted to make any size of Building required—can be delivered within seven days of order.

WRITE FOR FREE ILLUSTRATED LITERATURE OF OUR COMPLETE RANGE

LONG WHATTON MR. LOUGHBOROUGH LEICS. Telephone: HATHORN 351

MISCELLANEOUS ITEMS, BUILDINGS, PROTECTIVE CLOTHING, FENCING, TARPAULINS, ETC.

DIRT, GREASE, OIL. the grime of years, melt away before the high-velocity jet of DRY steam and detergent with the "SPEEDYJET" Electric Mobile Steam Cleaner. Compact, portable, without fumes or fire risk. Ideal for machinery, contractors' plant, transport vehicles, yards. Just plug in and ONE man does the work of five and much more thoroughly. Let us demonstrate at your premises. Send for leaflet S.231: **BASTIAN AND ALLEN, LTD.**, Ferndale Terrace, Harrow, Middlesex. Tel.: HARrow 7171.

CHESTNUT FENCING AND POSTS: also **WATTLE HURDLES** and **INTERWOVEN PANELS.** Prompt deliveries from works at Croydon and Sevenoaks. **BERNARD COLLINS (WOOD PRODUCTS), LTD.**, 52 Court Road, London, S.E.25. Tel.: Livingstone 5089.

WANTED, TRENCH SHEETS, ACROW PROPS, any quantity.—Contact **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: Advance 5691/2/3.

FLEET CARS (SALES), LTD.—BUSES AND COACHES for the conveyance of workmen, personnel, etc. Free hire, repurchase scheme.—See main advertisement under "Electrical Equipment."

WANTED, BRITISH SECTIONAL TANKS OR LOOSE PLATES, 4ft. square, 1/2in. to 1/2in. thick.—**FRED WATKINS (ENGINEERING), LTD.**, Coleford, Glos.

TRUSOTT FENCING, LTD., DORKING Surrey. Telephone 3416. All classes of FENCING supplied and erected. Specialists in Chain Link. Estimates free.

CLINKER ASH for SALE, delivered, collected or f.o.r. Samples sent on request. Write Box V.T.368, "The Contract Journal."

HUTS FOR SALE

Sectional Wooden HUT, 36ft. x 17ft., 10ft. eaves, galvanised roof, lined matchboard, large windows and door. Ready for dismantling at Sutton works. £95 quick sale. Also Three large Seco HUTS, lying dismantled Bristol. £125 the lot.

DAWSON-KEITH, LTD., Hillview Road, Sutton, Surrey. Telephone: Fairlands 4401.

IT'S
GOOD FENCING
IT'S
SUPREME
FOR FENCING OF ANY TYPE,
SUPPLIED OR ERECTED COMPLETE, TRY
SUPREME FENCING LTD.
10 STATION ROAD
WATFORD
MERTS
WD23

SOUND SECOND-HAND PLANT. 1,000 No. 1 ACROW PROPS, 39/6 each; 500 No. 2 ACROW PROPS, 45/6 each; 20,000ft. 13/21ft. Steel SCAFFOLDING, 1/3-1/4ft.; 100,000 shorter lengths, 1/2ft.; S/H SCAFFOLD BOARDS, 1/3-1/4ft., all lengths. **A. F. SIMPSON, LTD.**, 68/70 Penge Road, South Norwood, S.E.25. Telephone: Sydenham 3131 (3 lines).

WANTED, surplus stocks of COAL SLACK, FILTER or other type COKE, ANTHRACITE, WELSH and BITUMINOUS COAL. Not Coke Breeze or Coal Slurry. Quantities of not less than 8 tons. Payment as required.—**C.A.G. (LONDON), LTD.**, Industrial Fuel Distributors, 136/140 Westbourne Park Road, London, W.2. Tel.: BAYswater 2288.

FOR SALE, Four 96ft. long x 35ft. wide Romney Type BUILDINGS, having sliding doors at each end. Framework and galvanised sheeting in first-class condition. Price £500 each, dismantled and loaded on to transport.—**GEORGE COHEN, SONS AND CO., LTD.**, 600 Wood Lane, London, W.12. Telephone: Shepherd's Bush 2070—Ext. 258.

DERBYSHIRE LIMESTONE, all grades, dry or tared up to 200 tons per day, or graded smaller sizes available, delivered to site. **GEORGE DAVIS (HAULAGE), LTD.**, 2 Bosworth Road, Nottingham. Telephone 84819.

WANTED: CORRUGATED STEEL SHEETS. Second-hand. Any area. Sites cleared. Prompt payment.—**J. DUFFY, Bank Street, Clayton, Manchester, 11.** Telephone: East 3361.

FOR SALE: Corrugated Steel SHEETS, new and second-hand. Most sizes and gauges in stock. Contact: **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

LADDERS FROM STOCK

STEPS • TRETTLES • BOARDS • DUST SHEETS
Price List from THE PODMORE WORKS
769/773 Garratt Lane, S.W.17 Tel: WIMBLEDON 7623

CONTRACTORS' AND BUILDERS'

TOOLS

JOHN MACNAMARA & COMPANY LIMITED
BUSH ROAD, LONDON, S.E.8.
BERMONDSEY 3275 & 1435

EDWARD ASH, LTD.

FOR
RAILWAY SLEEPERS
AND
CROSSING TIMBERS

KENT WHARF, CREEKSIDE, DEPTFORD, S.E.8

Telephone: TIDeway 2651-2

BEAM CLAMPS. Size No. 1: COLUMN CLAMPS. Sizes 2 and 3: PROPS. Sizes 1, 2, 3 and 4: SHUTTERING PANELS and FLOOR CENTRES available for SALE and HIRE. **PLANT AND BUILDING EQUIPMENT, LTD.**, Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATTERsea 9213.

FOR SALE. ADJUSTABLE STRUTS, 400 Type No. 1, 1,300 Type No. 2, 1,000 Type No. 3. All in perfect condition. Contact: **C. EVANS AND SONS LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

SECOND-HAND SECTIONAL TIMBER BUILDINGS, 24ft. x 12ft., £102; 30ft. x 15ft., £138; 40ft. x 18ft., £192; 60ft. x 20ft., £302. Floors asst. Delivery included 100 miles. Also similar New Buildings. Lists.—**UNIVERSAL SUPPLIES, Crabtree Manorway, Belvedere, Kent.** Tel.: Erith 3294E.

STILL the CHEAPEST for STEEL SCAFFOLDING on HIRE. SINGLE HOUSE £8 10s. Tube 1 1/2d. Boards 2d. per ft. Fittings 1 1/2d.; Putlogs 4d. each. **SCAFFOLD for SALE.** **CHURCH HILL CONSTRUCTION CO. LTD.**, Burgess Hill, Sussex. Telephone 3420.

WANTED, used Corrugated Steel SHEETS, from 4ft. and up, 22-gauge or heavier. Also Anderson and Elephant SHEETS. Contact: **C. EVANS AND SONS, LTD.**, Burnside Wharf, Burnside Street, Bow, E.3. Tel.: ADVance 5691/2/3.

NISSSEN - TYPE HUTS, 16ft., 24ft. and 30ft. span, clad new or second-hand sheeting. Also new Galvanised NISSSEN SHEETS for SALE, all standard sizes.—**NAYLOR'S (BILSTON), LTD.**, 204 Wolverhampton Street, Bilston 41689.

RAILWAY SLEEPERS 5,000. All grades

8ft. 6in. x 10in. x 5in., from 7/6 each. S.H. BATTENS, 10ft. to 15ft. x 7in. x 2 1/2in., 1/- per ft. Orders of £75 delivered free 100 miles.

BUNTINGS.

Mansfield Road, Aston, near Sheffield.
Phone: Aston Common 259.

CLINKER ASHES

for housing and building sites, playing fields, tennis courts, etc.

HARDWARE, SAND & BALLAST. RUBBISH CLEARED

Breco

198 DRAKEFELL ROAD, BROCKLEY, S.E.4
Phone: NEW CROSS 4218

NEW TARPAULINS

Green Rotproofed Double Flax Sewn Seams, Reinforced Brass Eyelets with Spliced-in Ropes. Ex stock.

Approx. sizes	16oz.	12oz.	15oz.	18oz.
12ft. x 9ft. ...	57/-	84/-	90/-	84/-
15ft. x 12ft. ...	95/-	140/-	150/-	140/-
18ft. x 12ft. ...	114/-	168/-	180/-	168/-
18ft. x 15ft. ...	142/6	210/-	225/-	210/-
21ft. x 15ft. ...	165/3	245/-	263/6	245/-

Weights before proofing.

EX-RAILWAY TARPAULINS (RECONDITIONED)

Specially selected, complete with Eyelets and new Ropes.

14' x 10' £2.15.0 20' x 14' £5.10.0

EX STOCK. Carriage paid to English and Welsh (mainland) Stations.

POTTER BROS. (TARPAULINS) LTD.

(CJ) Frankwell Works, Shrewsbury. Phone: 2256
Tarpaulin Makers for Over a Century



Kariscol

steel-framed, prefabricated
BUILDINGS

for
FACTORY BUILDINGS,
WORKSHOPS, PLANT STORES,
ETC. ETC.

- No on-site riveting or welding
- Speedy erection
- Permanent or temporary
- High recovery value

30ft. to 100ft. clear span; lengths in any multiple of 12ft. 6in.

Write for leaflet K.104

THE LILLESHELL COMPANY LTD.
ST. GEORGES • OAKENGATES • SALOP.
Oakengates 120

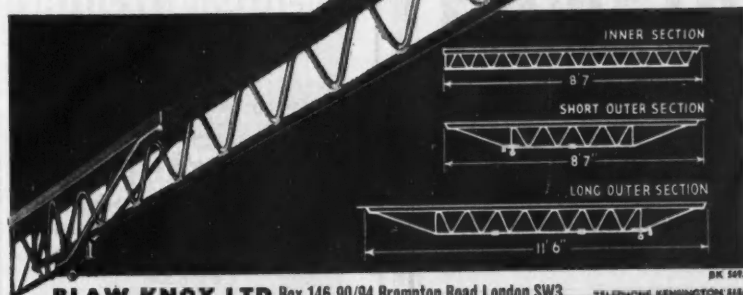


For Houses, Flats and
Industrial Buildings

V200-D CENTERING

The most economical units
for modern building
construction.

Any span from 8ft. 7in. to 23ft. without propping.
Instantaneous wedge locking of beams.
Built-in camber adjustable to meet special conditions.
Compact, strong but light-weight units easily handled by unskilled labour.



BLAW KNOX LTD Box 146 90/94 Brompton Road London SW3

TELEPHONE BROMINGTON 8140

MISCELLANEOUS ITEMS, ETC.

BUILDINGS — STEEL-FRAMED. Bellman Hangars, 175ft. x 96ft. New or second-hand Galvanised Sheeting. Also larger Hangars available.

Super Robin Hangar, 76ft. x 61ft. 6in. New Galvanised Sheeting.

Blister Hangars, 91ft. span, any length, in 7ft. 6in. multiples, with new Galvanised or Asbestos Sheeting.

Romney Buildings, 35ft. span, any length in 8ft. multiples.

Nissen Buildings, 16ft., 24ft. and 30ft. span. Any length in 6ft. multiples, with new or second-hand sheeting.

Send for full details, with illustrated leaflet, to:

GEORGE COHEN, SONS AND CO., LTD., Wood Lane, Shepherds Bush, London, W.12.

Telephone Shepherds Bush 2070—Extension 18.

FOR SALE. 500 tons re-layable 75lb. per yard F.B. RAILS, in 36ft. lengths, with fishplates and fishbolts, etc., to suit.

20 CROSSINGS in re-layable 75lb. per yd. F.B. rail, with all necessary fittings.

100 tons of re-layable 95lb. per yd. B.H. RAILS, in 60ft. lengths, with fishplates to suit.

2,000 re-layable CHAISED SLEEPERS, suitable for 95lb. per yd. B.H. rails.

EDWARD ASH, LTD., Kent Wharf, Creekside, Deptford, London, S.E.8.

WANTED. SCAFFOLDING, PROPS, TRENCH SHEETING, etc., and all types of NON-MECHANICAL BUILDERS' PLANT. Sites cleared by arrangement.

PLANT AND BUILDING EQUIPMENT, LTD., Chathfield Works, 1 Chathfield Road, Battersea, London, S.W.11. Telephone: BATTERSEA 9213.

FOR SALE. Little Giant Burton DOUBLE COUPLERS, 50,000 in perfect condition. SWIVELS, JOINT PINS and PUTLOG CLIPS also available.

Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel: ADVANCE 5691/2/3.

SISTERSON for SLEEPERS, all grades. CHAISED SLEEPERS and CROSSING TIMBERS; also STEEL RAILS, with Fittings. Stocks Midlands and North.—54 Grey St., Newcastle on Tyne. Tel. 22587.

FOR SALE. NEW ROADFORM PINS, 1in. or 1 1/2in. dia. x 2ft. long.—TEMPLE MILLS (STEEL), LTD., Temple Mills Lane, Stratford, E.15. Tel: Maryland 2660/7734.

FOR SALE. 25 tons 6in. CAST-IRON GUTTERING, Down Pipes and Fittings to match, £30 per ton. J. DUFFY, Bank Street, Clayton, Manchester, 11. Tel: EAST 3361.

FOR SALE. 14in. x 7in. SLEEPERS, suitable for plant mats or roadways, £5 per ton. THOS. LORD, LTD., Mitella Street, Burnley. Telephone 3365.

FOR SALE. 800 ACROW FLOOR CENTRES, Nos. 2, 3 and 4; Synchronised BEAM CLAMPS, No. 2. Contact: C. EVANS AND SONS, LTD., Burnside Wharf, Burnside Street, Bow, E.3. Tel: ADVANCE 5691/2/3.

IF YOU HANDLE or LAY KERBS, the KERBMASTER will make the job easier and save time. Cost only £8.—Details from EDWARD BENTON AND CO., LTD., Ferring, Worthing, Sussex.

URGENTLY REQUIRED. 200ft. of TRACK, complete with Sleepers, suitable for Liebherr Tower Crane, Type 32A. Reply Box M.1815, "The Contract Journal."

WANTED: BRICK and CONCRETE HARDWARE, any quantity.—R. BARKER (PECKHAM), LTD., New Cross 3337.



FOR SALE

80 tons unused REINFORCING ROUNDS, 1 1/2in. to 1 1/4in. dia. We will deliver small lots. Send for our stock list, giving full details of sizes available.

Write: COX AND DANKS, LTD., Frederick Road, Salford, 6.

ELECTRICAL, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

COACH SPECIALISTS of the SOUTH

always have available a

Large stock of Good Used PASSENGER VEHICLES many with C.O.F.s

Ideal for conveyance of staff

Yearly Road Fund Tax £12.10.0

BEDFORD 26 str. Coaches from £75

or suitable for SITE OFFICES, from £50

A.E.C., LEYLAND, etc., 33/35 str. from £100

Let us demonstrate at your premises

E. J. BAKER & CO. (DORKING) LTD.

The Coach Works, Farnham Trading Estate, Farnham, Surrey. Telephone: 4626/7

ELECTRICAL EQUIPMENT, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

TRACKS FOR SALE.

TD18 TRACKS, ROLLERS AND SPROCKETS, as new. Challenger 3 TRACKS, ROLLERS AND SPROCKETS.

BD6 TRACKS, ROLLERS AND SPROCKETS. Track Marshall RACKS, ROLLERS AND SPROCKETS.

Flat 55L TRACKS. Caterpillar D4 TRACKS AND SPROCKETS.

HD7 ROLLERS. Fordson County TRACKS, ROLLERS AND SPROCKETS.

Large stocks of second-hand SPARES for all crawler tractors.

N. M. GREEN, Kirkby Underwood, near Bourne, Lincs. Telephone: Dowsby 285; nights—Gosberton 305.

DIESEL ENGINES SERVICE EXCHANGE.

For Smith Excavators, Ingersoll, C.P.T. and other Compressors, Foden and E.R.F. Dumpers and Tipper.

Muir-Hill and Chasidie Loaders and Dumpers. Field service available day and night.

TILSLEY AND LOVATT, LTD., Engine and Plant Division, Stoke-on-Trent.

RYE ARC, LTD., Albert Dock 4381.

New building regulations say it's imperative that all small tools be at 110-Volts output. Use our new STEP-DOWN TRANSFORMERS, input 230-Volts, output 110-Volts.

TYRES for SALE, 30 unused 38 x 7 Tyres to fit 24in. wheel, £7 each or £175 the lot. Some wheels available, if required.—WILLIAM TYZACK, First Avenue, Montague Industrial Estate, Edmonton, London, N.18. Telephone: EDMONTON 2150.

FOR SALE. Heavy American AUTOCAR TRUCKS, very suitable for breakdowns. Also six Thornycroft 4-wheel drive ex W.D. TRUCKS. Photographs available.—HARFORD ENGINEERING CO., LTD., Whiting Road, Norwich.

FIFTEEN SECTIONAL WOODEN GARDEN SHEDS, sizes 7ft. x 5ft. Price £225 the lot. Delivered 100 miles.—7 Queen Street, Hightown, Hednesford, near Cannock, Staffs. Telephone: Hednesford 220.

WANTED. Le Tournou WINCH or similar for fitting to Series 5R Caterpillar D6.—J. MAUNDERS AND SONS, LTD., 554 Barton Road, Stretford, Manchester. Tel: URM. 3266.

FOR SALE. 300/400-Amp Murex Diesel driven WELDING SET, Perkins P4 Engine, on pneumatic-tired trailer.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

WE BUY REPLACEMENT PARTS for Caterpillar Tractors.—Send offers to Box Q.Q.396, "The Contract Journal."

CYLINDER HEADS.—Caterpillar, International, Ruston, Diamond, etc., B.M.C., A.E.C., Gardner, etc., perfectly repaired by our special

"FUSION WELDING PROCESS" no matter how badly cracked. Finished, machined, tested, standard. Also Repairs to Crankcases, Sumps, Differentials, etc.

Axles, rear and front, reconditioned. Exchange P6, R6, P4 Heads. Established 40 years. Satisfaction guaranteed.—ANGELL AND WILLIAMS (PECKHAM), LTD., Sumner Road, S.E.15. Telephone: RODNEY 3559

SPARES FOR SALE. 10BD Muir-Hill Dumpers. C.P.T. Compressors. Blaw Knox 125. List prices less 40 per cent. discount for complete lots. Lists on application.

WILSON PLANT HIRE, LTD., Weedon Rd., Northampton. Tel: Northampton 4653/4.

FOR SALE. New Kirloskar 5-h.p. and 10-h.p. at 1,500 r.p.m. Water-cooled DIESEL ENGINES—AV1, Basic Units, £88; Basic Air-cooled Units, AA1, £92 10s.; Service Exchange Units, AV1, AA1, £55 each. New PUMPS, Diesel PUMP SETS, very cheap. Maintenance, Spares from stock. Immediate delivery. K. BRANUM AND CO., Seabourne Wharf, Richmond Road, Isleworth, Middlesex. Tel: ISL. 3441/3442.

GUARANTEED used TRACTOR and CRAWLER SPARES for SALE. Always dismantling good tractors. Everything available: Tracks, Rollers, Sprockets, Tyres, etc. Terms C.W.O. Money back guarantee. 300 Tractors in stock.

SHELTON, Tractor/Crawler Spare Specialist, Westwood Farm, Bulby, Bourne, Lincs. Edenham 223/4.

FOR SALE. Two 15-kVA GENERATORS, 230-Volts single-phase A.C. driven by 3-cyl. Lister Diesel Engine.—D. S. HERSEY, Charlton Street, Bishopthorpe Road, York. Telephone 53114.

BRISTOL ANGLEDOZERS AND EQUIPMENT. Immediate SPARES and REPAIR SERVICE for all models.—H. A. SAUNDERS, LTD., Main Distributors, The Butts, Worcester. Telephone 6651.

WANTED. TRACKS for Ransomes 410 Excavator (1951). Must be in good condition.—Send full details to Box E.1614, "The Contract Journal."

TYRES for SALE, 1200-24, 1400-24, 1800-24, new, unused, at less than half cost. Other sizes pro rata. ROWLAND (TYRES), Caernarvon. Telephone 3110.

NEW SCRAPER TYRES. 18.00 x 24, with Tubes and Flap, £70 each.—90A Bath Road, Hounslow 8831.

BALL AND ROLLER BEARINGS

FOR ALL CONTRACTORS PLANT

BRITISH • AMERICAN • CONTINENTAL

Any quantity despatched same day.

A.C. BEARINGS KNI 4277

245 KNIGHTSBRIDGE S.W.7 KEN 9402

RUSTON EXCHANGE ENGINE SERVICE

Consult the Specialists

Wheatley & Whiteley

99 Kirkstall Road, Leeds 3

Tel: 31122

FLEET CARS (SALES) LIMITED

A.E.C. — LEYLAND — BRISTOL BEDFORD

OVER 200

Single and Double-decker passenger vehicles in stock, at prices ranging from £125 to £250

FREE HIRE

Repurchase at cessation of contract scheme (Write for full particulars)

Three months' guarantee

Free Spares

Part exchanges

Write for

Monthly Mailing and Stock Lists

FLEET CARS (SALES) LIMITED

F.C.S. WORKS · LONDON ROAD

DUNCHURCH · RUGBY

Telephone: DUNCHURCH 262 and 265

On the A45

FRANK COWLEY 200

DEPENDABLE BUSES AND COACHES FOR YOUR INSPECTION AND TEST

ALL VEHICLES CAN BE TAXED AT £12 10 0 PER YEAR

1948 A.E.C. 34-seater Buses, fitted A.E.C. 7.7 or 9.6 Diesel Engines. First-class throughout, £295 each.

1949/50 DENNIS 33/35-seater Coaches, fitted Dennis Big 6 Diesels and Gardner 5LW Diesels, with 5-speed gearboxes. Excellent machines, £338 each.

1948 BRISTOL 35-seater Buses, fitted Gardner 5LW Diesels and 5-speed gearboxes. First-class machines, £335 each.

1945/46/47/48 A.E.C. Guy and Daimler 39-seater Buses, fitted with modern 8ft. wide bodies, and powered by Gardner 5LW and A.E.C. 7.7 Diesels. Good, sound, clean, genuine machines, £350 each.

LEYLAND PS1 and T38 32/35-seater Single-deck Buses and Coaches, from £175 each. All road tested and ready for work.

1947/1948 A.E.C. Guy and Leyland Double-deckers, high and low bridge. A.E.C. 7.7, Gardner 5LW and 6LW Diesels, also Leyland PD1 Diesels. From £195 ea.

Write for latest stock list, also special spare part price list showing savings of 75% on spares.

ALL VEHICLES CARRY OUR THREE MONTHS' GUARANTEE

WILL TAKE YOUR OLD VEHICLES IN PART EXCHANGE

FRANK COWLEY

3 Blackfriars Road, Salford, 3

Phone: MANCHESTER BLACKFRIARS 7577 and BLACKFRIARS 1048

ELECTRICAL, SPARES AND OVERHAULS, VEHICLES AND ANCILLARIES

RUSTON POWER TO SERVE YOU
From stock: SERVICE EXCHANGE ENGINES, Type VRON, VROHN, VRHN, VQBN, VPHN, YEN, VCBN.
Full range of ENGINES from 10RB to 54RB excavators, SERVICE EXCHANGE ENGINES also stocked for Cranes, Locos., Pumps, Power Packs, etc.
CHANGEOVERS to EXCAVATORS and other PLANT UNDERTAKEN on site by STAFF of competent FIELD ENGINEERS.

TILSLEY AND LOVATT, LTD., Engine and Plant Div., Newstead Trading Estate, Trentham, Stoke-on-Trent.
Telephone: Trentham 57331 and 57332.
Telegrams: "Diesel," Stoke-on-Trent.

J. J. JOHNSTON AND CO., LTD., for REPAIRS, J. OVERHAULS and FIELD SERVICE to all types of Contractors' Plant, Mobile Cranes, etc.—Phone Egar 6905. RAPID SPARES AND SERVICE, Coronation Road, Park Royal, London, E.16. Tel.: 2241.

THE Civil Engineers' Depot for Generators can supply you with LIGHTING GENERATORS, TELESCOPIC STANDS, CABLES and GLOBES. RYE-ARC, LTD., Plant Hire Division, Silvertown Works, North Woolwich Road, London, E.16. Tel.: Albert 4381.

EXCHANGE TRACKS, ROLLERS, TUMBLERS and SHAFTS for 10RB, 19RB and 22RB. Also quantity of NEW SPARES for these machines. ALFRED C. LEFLEY, LTD., 10 Morland Gardens, Southall, Middlesex. Tel.: Southall 1389.

PNEUMATIC TOOLS—Quantity of CP3 CLAY DIGGERS and SPARES for SALE. Seen London. Write Box E.1704, "The Contract Journal."

FOR SALE, Caterpillar D4 and D2 SPARES. No reasonable offer refused.—Tel.: MIT 4082.

FOR HIRE

20 Diesel driven electric start WELDING SETS. With or without operators.

RYE-ARC, LTD., Plant Hire Division, Silvertown Works, North Woolwich Rd., London, E.16. Telephone: Albert Dock 4381.



Trelawny
FOR TRACKS

Tel: LEAMINGTON SPA 8622/3

MECHANICAL ENTERPRISES, LTD., DORKING ROAD, Gomshall, Surrey.

For hire, all types of cars, commercial vehicles, i.e., Tipper, Traders, Land-Rovers and Tractors, short-term, holiday and long-term contracts with new vehicle every 1/2 years. Please send your enquiries to us, quotations by return of post. Special rates for fleet operators.

MECHANICAL ENTERPRISES, LTD., DORKING ROAD, GOMSHALL, SURREY.

Phone: Shere 204

RUSTON

SERVICE EXCHANGE ENGINES GENUINE SPARES

TILSLEY & LOVATT LTD.

STOKE-ON-TRENT, STAFFS

PHONE: 57331/2

GRAMS: DIESEL

MATHEW BROTHERS

ARE SO HELPFUL

FOR

DIESEL GENERATING SETS

SALE OR HIRE

YOUR ENQUIRIES WELCOMED



"Matbro" House, Beddington Lane, Craydon, Surrey.
THORNTON Heath 3402-3-4

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

NEAGRON (CONSTRUCTION), LTD.

OFFER FOR HIRE:

NEALS QM 4/6-ton capacity MOBILE CRANES, Jibs from 24/60ft., heavy-duty pneumatics.

NEALS 2-ton MOBILE CRANES, mounted on pneumatic tyres or crawler tracks.

JONES KL44 3/4-ton capacity CRAWLER-MOUNTED CRANES, 24ft. Channel to 40ft. Lattice Jibs, with 10ft. Jib.

JONES Super 40 3-ton capacity CRAWLER-MOUNTED CRANES, with 30ft. and 40ft. Jibs.

COLES and LORAIN 5/25-ton capacity LORRY-MOUNTED CRANES.

LIMA 802 30-ton capacity CRAWLER-MOUNTED CRANE, fitted 80/100ft. Jib with Hitch Gantry.

First-class condition.

CONCRETE MIXERS, 5/31, 7/5, 10/7, 14/10 and 21/14 cu. ft. capacity, Diesel-powered, high or standard discharge, with Integral Weighgear and Hand Scrapers.

DUMPER, Diesel, 1 1/2 cu. yd. capacity.

COMPRESSORS, Lorry-mounted and Portable, with full equipments.

ANT QUEEN Diesel MOBILE HOISTS, 7/10cwt. capacity, rail as required.

EXCAVATORS, 10, 19, 24, 33RBs and NCK304 with all equipments.

40ft. HANGING LEADERS for 19RB or 22RB Excavators, complete with all necessary fittings.

DROTT and ALLIS-CHALMERS HD5G TRACTO-SHOVELS.

CATERPILLAR and BRISTOL TRACTORS, all sizes. I.C.B. and DINKUM DIGGERS.

ROLLERS, 6 1/2-cwt., vibrating, to 10-ton capacity.

SHUTTERING, SCAFFOLDING, PROPS, ROAD-FORMS, etc.

MONO-RAIL and C.P.O.A.C. CONCRETE PLACER

CHINOOK HEATERS immediately available ex London depot.

FURTHER DETAILS:
Abbey House, Victoria Street, London, S.W.1.
Telephone: Abbey 5152 (4 lines).

WANTED.

Two Ruston 54RB Diesel EXCAVATORS, Dragline Equipment.

Two Lima 1201 EXCAVATORS, Dragline Equipment.

Ruston 54RB Electric DRAGLINES, either Ward Leonard or single motor.

Full details, incl. price, to: Box P.1807, "The Contract Journal."

FOR IMMEDIATE HIRE or SALE: 21/14 Winget High Discharge Diesel MIXER, with Dragline Feeder, fully reconditioned and in good order.—SGS BUILDING EQUIPMENT DIVISION, Mitcham, Surrey. Tel.: Mitcham 3400.

ROAD ROLLERS WANTED. By Aveling-Barford or Marshall, 7/8-ton, Diesel, 1948 or later.—Full particulars, lowest cash price, to: A. M. COLE, Eastgate, Sleaford, Lincs. Tel.: 463.

AVAILABLE for HIRE in June: Four B1 22-ton Euclid REAR DUMP TRUCKS. Good drivers. Travel anywhere.—JAMES H. SHEEHY, LTD., Denby, Derby. 'Phone: Horsley (Derby) 612/3.

WANTED

19RB, 22RB and 33RB EXCAVATORS, any equipm. 6-ton MOBILE CRANES.

AXWORTHY AND COMPANY, LTD.,

4 Ouseley Road, Old Windsor, Berks.

Ring Windsor 60668.

STEAM OR DIESEL ENGINE	CONCRETE MIXERS	ELECTRIC OR BELT DRIVE
MORTAR MILLS		
BELPER	SMEDLEY BROS LTD	DERBYS.

HAWLEY PLANT FOR HIRE.

BULLDOZERS: STD6, D6, D8.

COMPRESSORS: 2- and 4-tool Portable and Lorry-mounted.

CONCRETE MIXERS: 5/31, 10/7, 14/10.

CRANES: 15cwt. to 6-ton Mobile; 1- to 25-ton Lorry-mounted.

DROTT SHOVELS: 4-in-1 Equipments.

DUMPER: 1 1/2, 1 and 1 1/2 cu. yd.

EXCAVATORS: 10RB and 19RB with all Equipments.

PORTASILOS: 13- to 20-ton, with Weighing Equipment.

PUMPS: 1 1/2in. to 4in. Centrifugal; 2in., 3in. and 4in. Diaphragm.

ROLLERS: 6 1/2cwt. to 1-ton Vibrating; 8- to 14-ton Deadweight.

TRENCH SHEETS and STRUTS, ELECTRIC and AIR-DRIVEN TOOLS.

600-gal. and 900-gal. WATER TANKERS.

For this and any other Equipment—

Dartford 25539 and 25997.

HAWLEY PLANT, LTD.,

Hawley Road, Wilmington, Kent.

FOR SALE.

Larsen and Appleby-Frodingham STEEL SHEET PILES, Nos. 1, 2, 3 Sections.

Two 1 cu. yd. Johnson Diesel DUMPERs, overhauled.

4in. Johnson Portable Diesel PUMPING SET, reconditioned.

No. 16 Spencer-Hopwood BOILER, fully insured, 120lb.

No. 7 McKiernan-Terry PILING HAMMER, with its guides.

2-tool Broomwade Portable COMPRESSOR, Lister Diesel.

Two P20 PORTASILOS, new 1959 and 1958.

TRENCH SHEETS, 10ft. and 12ft.

2-ton Neal N CRANE, 20ft. Jib, reconditioned engine.

DUDLEY VALE, LTD.,

3 Buckingham Place, London, S.W.1. VICTORIA 0252.

CHATFIELD Multi-purpose Rollover CONCRETE POURING SKIP, which offers the advantage of BOTTOM DISCHARGE or FRONT DISCHARGE from the one unit at a total price only a little above the cost of existing single-purpose skips. For SALE and HIRE. Further details from:

PLANT and BUILDING EQUIPMENT, LTD.,

Chatfield Works, 1 Chatfield Road, Battersea, London, S.W.11. Telephone: BATTERSEA 9213.

CRANE HIRE SPECIALISTS.

Lower Bristol Road, Bath.

Consult G. W. SPARROW AND SONS, LTD., with all your lifting problems.

Lifts up to 50 tons; Jib Extensions to 170ft.

COUNTRY WIDE SERVICE.

'Phone: Bath 78158-78450.

FOR SALE, CROWD SHOVEL and SKIMMER/BACKACTER EQUIPMENTS for Rapier 423 Excavator.—WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

WANTED. Two 5-ton Electric Derrick CRANES, 120ft. Jibs, preferably on bogies.—Write Box P.1816, "The Contract Journal."



SKIPS FOR SALE OR HIRE

Ring Battersea 9213/4/5

PLANT & BUILDING EQUIPMENT LIMITED

Chatfield Works, 1 Chatfield Rd., Battersea, London, S.W.11.

WORKING IN WEST SUSSEX ???

Your INQUIRIES for the HIRE of all TYPES of PLANT are invited and will be specially and promptly dealt with on application to:

NEALS (PLANT HIRE), LTD.,

Stockbridge Road, Chichester, Sussex.

Telephone: Chichester 3777/8/9.

FOR PUMP HIRE

CONSULT

PUMPIRE LIMITED

MANCHESTER

LONDON

LEICESTER

Guide Lane, Audenshaw

112 Jermyn Street, S.W.1.

Tudor Works, Bradgate St.

Phone: Denton 4195

Phone: Trafalgar 2665

Phone: Leicester 21512

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

AFTER MAY 2, 1960, LEYDEN BROS. (CONTRACTORS), LTD., of 22 Lambie Street, London, N.W.5, will be moving to 476 Hornsey Road, London, N.19. Tel.: Archway 0625.

FOR SALE.
Smith Super 20, with $\frac{3}{4}$ Skimmer, Backacter and Dragline Equipment, in good condition, £900. Aveling 10-ton ROAD ROLLER, Blackstone Diesel Engine, complete with Scarifier and Sprinkler, good condition, £600.

CORNEILL AND CO., Broadstone Hall Road, South Reddish, Stockport. Tel.: STOCKPORT 7214.

DELMAG Diesel PILE HAMMERS for HIRE. . . . Our fleet of these fine machines is the biggest in Britain. Models DS, D12 and D22 available with rope suspended leaders and leg guides, suitable for driving any section of pile.

DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. VICTORIA 0252.

FOR HIRE.
COMPRESSORS of all types, DUMPERS, Etc.

MILES, Cowburn Street, Heywood (6856), Lancs.

FOR HIRE IN THE MIDLANDS: 10-ton Lorry-mounted CRANES, 11bs to 75ft.—NELSON AND CO., LTD., Lustro Lane, Solihull, Warwickshire. Telephone: Sheldon 4005.

FOR SALE. Two Super C Le Tourneau Diesel MOTOR SCRAPERS, fitted Cummins Diesel Engines, fit for service, with good tyres, £750 each.—HARFORD ENGINEERING CO., LTD., Whiting Road, Norwich.

WANTED. Onions Model EM 4-5 or 4-6 SCRAPER. MIDLAND EARTHMOVING CO., LTD., Penzer Street, Kingswinford, Staffs. Tel.: Kingswinford 3031.

BENFORD 15cwt. Diesel-driven DUMPER for SALE! In good working order.—W. V. DAVIES, Shipton-on-Stour. Phone 125.

FOR SALE.
1 $\frac{1}{2}$ cu. yd. Diesel DUMPER, new 1958. Guaranteed, £300.

Smith Super 10, ready to go on site, insured against breakdown, Backacter and Skimmer Attachments, £750.

1957 3 cu. yd. SHUTTLE DUMPER, little used. Steering faces hopper. Excellent for site or quarry work. New price £1,800, but this machine is offered for quick sale. Engineer's report on request, £750.

Special delivery terms.

DIAL-MEC, LTD.,
47 Castle Street, Hertford. Tel.: Hertford 2456.

TOKEN FOR PLANT.
HIRE your EXCAVATORS, DOZERS and SCRAPERS, DINKUM Major DIGGERS and Drott SHOVELS, TRENCHERS, DUMPERS, ROLLERS, CONCRETE MIXERS, PUMPS, COMPRESSORS, RAMMERS, VIBRATORS, HOISTS, GENERATORS, etc., from TOKEN CONSTRUCTION CO., LTD.

Plant Depots:
Station Rd., Thatcham, Berks. Tel.: THA. 3243-3370. Valmar Rd., Camberwell, S.E.5. Tel. BRIXTON 5103.

ROAD ROLLERS.—Marshall RD2, 8/10-ton, 1949, one owner, Perkins P4 Diesel Engine replaced last June, electric starter, Vulcan-Sinclair Fluidrive, Allen 2-tine Scarifier, driver's cab, sprayers, water-ballast rolls, excellent condition. Aveling-Barford GB1, 3-ton, 1948, ex County Council, Ruston 2VTHR Diesel Engine, canopy, sprayers, water-ballast rolls, good roller.—A. M. COLE, Eastgate, Sleaford, Lincs. Tel. 463.

AVAILABLE for immediate HIRE: 10RB and 10RB EXCAVATORS, all equipments, D7, TD18 and TD14 TRACTORS, with Dozers and Scrapers.—Apply TILBURY CONSTRUCTION CO., LTD., Ruscombe Works, Twyford, Berks. Tel.: Twyford 177 (4 lines).

NEW MOBILE CRANES.—British advertisers are shortly marketing tough new Truck-mounted MOBILE CRANES, based on popular 7-ton Diesel chassis. Besides exclusive features, full slewing, simplified drives to all motions, low headroom, 40 m.p.h. road speed capacity, optional four-wheel drive, pneumatic/hydraulic controls, jibs 18/45ft. Two versions offered: (1) Fully hydraulic powered; (2) all gear-driven. These Cranes will be among the smartest, most versatile, and lowest priced in their class. Capacity 5 tons. Price £4,800 (from). Deliveries July, 1960, onwards. U.K. and overseas agency offers invited.—Write Box P.1817, "The Contract Journal."

FOR SALE.—Caterpillar 9534 Cable Control WINCH (D7), £20; Ruston P24 P.C.U., £20; two TD18 reconditioned SPROCKETS, £20 each; D7 Series M SPROCKET, £30; D7 Series M CRANKSHAFT (reground .020in.), £50; two D7 Series M CYLINDER HEADS, £10 each; two D4 (27) SPROCKETS, £10 each.—Apply TILBURY CONSTRUCTION CO., LTD., Ruscombe Works, Twyford, Berks. Tel.: Twyford 177.

FOR SALE.
Unused 500-ton Three-station Hydraulic CONCRETE SLAB PRESS, with self-contained oil-pumping unit.
400-ton Fielding and Platt DITTO.
400-ton Fielding and Platt Two-station DITTO.

REED BROTHERS (ENGINEERING), LTD., Replant Works, Woolwich Industrial Estate, London, S.E.18. Telephone: Woolwich 7611 (6 lines).

NARROW TRENCH BUCKETS to fit all machines. SALE or HIRE. The Norton Backacter Bucket designed by user digs harder material and empties more efficiently. Sizes 1ft. 6in./2ft. 4in. IMMEDIATE DELIVERY. Other sizes within 10 days. Contact NORTON PLANT HIRE, LTD., Ramsden, Billericay, Essex. Tel.: Ramsden Heath 365/6.


WANTED. Modern Self-propelled 6/7-ton Diesel CRANE.—Write Box P.1781, "The Contract Journal."

CONCRETE SKIPS



BOTTOM DISCHARGE AND TIPPING TYPES
M. E. ENGINEERING LTD.
467 FINCHLEY RD. LONDON, N.W.3
HAMPSTEAD 7481-3-3

NEAL'S (PLANT HIRE) LTD
SERVE THE SOUTH
Immediately available for hire on the South Coast:—
Excavators, Tracto-Shovels, Mobile Compressors, Fergusons, Mobile Cranes, 10 BD 3 c.y. Diesel Dumpers, Petrol and Diesel Rollers, Concrete Mixers, etc., etc.
All enquiries promptly dealt with
Phone - - Chichester 3777-8-9



350 tons Original 85 lb./yd. F.B. RAILS, in first-class condition, suitable for Re-laying, Lengths 45'0".
For further details, rubbings, etc., write:—
COX & DANKS Ltd., Frederick Road, Salford, 6.

PUMPING WATER?
you need a
MUD MARVEL



BUY or HIRE from the sole makers W.G. SEARCH LTD. WHITEHALL RD. LEEDS. 12

ADEPT CONSTRUCTION PLANT, LTD.
Plant Hirers,
Clarence Wharf, Newport. Mon.
OFFER FOR SALE:
RUSTON-BUCYRUS EXCAVATORS:
10RB Excavator, fitted with Skimmer/Drags shovel, No. 20437. New March, 1956, £1,950.
10RB Excavator, fitted with Skimmer/Drags shovel, No. 19272. New March, 1955, £1,750.
Both these machines have been in our possession since new, they have been well maintained and are in very good order indeed. Genuine buyers only please.
EXTRA EQUIPMENTS available for above machines:
One Dragline (lattice jib), complete in every respect.
One Forward Shovel, complete in every respect.
One 10/8 Grab, complete with Channel jib (double rope).
One 10/8 Grab (double rope) only.
One Electric Overload Warning Device and Crane Hook.
TRACTORS:
Two Bristol 25 Duplex Tractors, fitted with Angle-dozer and Loading Shovels. Both new 1959, £800 each.
SPARES:
REGROUND CRANKSHAFT and BEARINGS:
One for Ruston 4VRO or 4VRH.
One for Ruston 4VRN.

FOR SALE

54RB Dragline Machine, with Hi-Lift Shovel Equipment.
54RB Face Shovel Machine.
Belgie-Boom 1 $\frac{1}{2}$ cu. yd. Dragline Machine.
Belgie-Boom 1 $\frac{1}{2}$ cu. yd. Face Shovel Machine.
Smith Super 10 Excavator, with any equipment.
N.C.H. Excavator, fitted Dragline, £300.
Lima Face Shovel Equipment.
Fowler Challenger Tractors.
Concrete Pumps.
Reich Drilling Equipment.

This and other plant is open to any reasonable offer, subject to availability and remaining unsold. Apply to:

SANDERSON BROS. (ENGINEERING) LIMITED
PUMP LANE, HAYES, MIDDLESEX

Telephone: HAYES 3981.

Contractors, get your Plant Ready for the GIANT ROAD PROGRAMME !

I—HD21 Allis-Chalmers Tractor with Onions P.C.U. Machine in almost new condition, for £4,500.

I—Gar Wood Scraper 19-24 cu. yd. Used on Demonstration only, for £2,500.

New Track Chains for all Allis-Chalmers and Caterpillar Models.

Very large stock of HD14 and GM Spares and several HD14 Tractors for breaking up.

CHALLIS, TURTON & CO. LTD.,

SOUTHVIEW AVENUE, NEASDEN, N.W.10

ROUND-THE-CLOCK SERVICE

Tel: Day - GLAdstone 6535/6/7.

Night - WEMbley 8245 and WORDsworth 8534

MOORE'S CRANE

15 cwt, 2 ton, 4 ton mobile. 5 ton, 10 ton, 15 ton Lorry Mounted.

HIKE

Tel:
TOTTENHAM
0401
(10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

FOR SALE.

One 10RB EXCAVATOR, late 13000 Series, Skimmer/Backacter Equipment, very good condition, £1,350.

Winget 10/7 Closed Drum CONCRETE MIXER, Petter Diesel, completely overhauled, repainted and tested, £195.

Two 3 1/2 T CONCRETE MIXERS, completely overhauled and repainted, £60 each.

Pegson RAMMERS, recent overhaul, ready for work, £45 each.

2in. R. and R. PUMPS, self-priming, completely overhauled, steel wheels, £50 each.

Lima 802 EXCAVATOR, Caterpillar Diesel Engine, Face Shovel Equipment, good condition. Price on application.

FOR HIRE:

VIBRATING ROLLERS, MIXERS, RAMMERS, PUMPS, PAINT SPRAYERS, MOBILE CRANES, COMPRESSORS, etc.

New Greens 8wt. ROLLERS, Vibratory type, for SALE. Ex stock.

Hire and Buy from:

THE HERCULES PLANT HIRE CO., LTD., 45 Hornsey Road, London, N.7. North 7074-4519.

NEW PARKER CONCRETE MIXERS. Mini Giant, 4/3 cu. ft., Villiers Petrol Engine. Cash price £88 each.

Little Giant, 5/3 1/2 cu. ft., Lister Diesel Engine. Cash price £175 each.

Delivery at once from stock.

Deferred or H.P. terms on request.

H. C. HILL, LTD., 68-70 Penge Road, South Norwood, S.E.25. Telephone: SYDenham 3131-4.

CONTRACTORS' PLANT FOR HIRE.

EXCAVATORS, BULLDOZERS, 7-ton Diesel ROLLER, 2-ton and 5-ton MOBILE CRANES, MONORAIL TRANSPORTER EQUIPMENT, VIBRATORY ROLLERS, COMPRESSORS, MIXERS, PUMPS, etc.—Plant Dept., WM. TOWNSON AND SONS, LTD., Higher Swan Lane, Bolton. Telephone: Bolton 10140.

FOR SALE, one 2 1/2-ton Herbert Morris Petrol/Electric MOBILE CRANE, ex M.O.S. Good order. Can be seen working, £425 or nearest offer. Reason for selling, being replaced by heavier crane.

WHEELERS, LTD., Timber Merchants, Sudbury, Suffolk.

FOR HIRE, ALL BUILDERS' PLANT, Alloy and Steel SCAFFOLD TUBE, BOARDS, FITTINGS, ACROW PROPS, CONCRETE MIXERS, etc. Prompt delivery, competitive prices, and terms arranged.

M. SANDERS, LTD., 18/20 Medlar Street, S.E.5. Tel.: ROD 5143.

FACE SHOVEL and BACKACTER EQUIPMENT.

In new condition, but scrap price to clear, £95. Make unknown.—Phone: Edware 2572.

FOR SALE.

TOWER CRANES, J. Weitz Model G12, complete with Rails and Skips, £800 each.

TRENCH SHEETS, 10ft., as new, 3/6 per ft. Self-dumping GRAB, Westwood 29/22, £125.

P.S.P. 10ft. x 15in., 12/6 per length.

SAWBENCH, 16in., Electric, Universal type, £120.

Stothert and Pitt 10/7 CD MIXER, Petrol, £85.

PILE FRAME, 2-ton, 51ft., Sykes, £350.

AIR COMPRESSORS, 5H50 to 600 c.f.m., Petrol, Diesel and Electric. Price on application.

CHASSIS, ex C.P.T. Compressors, £10 each.

Priestman 33/27 HEAVY GRAB, 2-rope, £100.

Priestman 17/14 HEAVY GRAB, 2-rope, £70.

New MOBILE SITE OFFICES, fitted, from £350.

CRANE SKIPS, 2 cu. ft. to 2 cu. yd. capacity.

CONCRETE PLACING SKIPS, 1/2 to 2 cu. yd. capacity.

Macco PIPELAYING WINCHES, 1/2-ton to 2-ton capacity.

ROADFORMS, 6in. to 10in. section.

41 new 9in. x 10ft. Standard ROADFORMS, complete with pins, 55/- each.

M.E. ENGINEERING, LTD., 457 Finchley Road, London, N.W.3. Telegrams: Mengilim, London. Phone: HAMpstead 7481-2-3.

FOR SALE.

19RB EXCAVATOR, Skimmer, Backacter, Dragline, Series 10700, £2,100.

33RB EXCAVATOR, Dragline, Series 9800, £2,950.

20-ton Scammell LOW-LOADER, 20ft. Well, Carrimore

Two Carco E TIMBER WINCHES.

Three Tournacranes, AD3, 20,000lb.

One Caterpillar 8H GRADER.

Two HD14 Baker ANGLEDROZERS.

One HD14 ROOT GRUBBER EQUIPMENT.

TD14 Dozer CORNER SHOES.

Two Gar Wood CU2 WINCHES.

MERTON ENGINEERING CO., LTD., Faggs Road, Feltham, Middlesex. Tel.: Feltham 3045.

FOR IMMEDIATE HIRE.

Delmag Diesel PILE HAMMERS, DS, D12 and D22.

20-ton PORTASILLOS.

McKiernan-Terry PILING HAMMERS, 5, 6, 7 and 9B3.

Spencer-Hopwood BOILERS, all sizes.

3yd. Weatherill LOADING SHOVEL.

Zenith PILE EXTRACTORS, Nos. 20 and 80.

Johnson 1 cu. yd. and 1 1/2 cu. yd. Diesel DUMPERS.

STEEL SHEET PILES, No. 2 Section.

TRENCH SHEETS, 10ft. and 12ft.

DUDLEY VALE, LTD., 3 Buckingham Place, London, S.W.1. Victoria 0252.

FOR SALE, 20-ton L/M CRANES. Two Byers-Mack

American manufactured, lorry mounted 20-ton

Cranes, less than 200 hours each, one 6 x 4, one 6 x 6. Asking price £11,000 the two.—Photographs and specifications from BOWMANS, Ballards Wharf, Poole Quay, Dorset. Tel.: Poole 334.

MODERN PLANT FOR HIRE, with experienced operators and backed by an efficient service organisation—

EXCAVATORS, 1 1/2, 3 and 1 1/2 cu. yd.

I.C.B. HYDRA-DIGGAS.

DUMPERS, 1/2 to 4 cu. yd., Diesel.

ROAD ROLLERS, 1 to 12 tons.

COMPRESSORS—Mobile and Portable, with every type of equipment.

Chasidex SHOVELS, 1/2 to 1 cu. yd.

ANGLEDROZERS—International and Fowler.

CONCRETE MIXERS, 5/3 1/2 to 14/10 cu. ft.

PUMPS, 1 1/2in. to 6in., Diesel.

Earth Rammers, Holists, Cranes, Mortar Pans, Kango

Hammers, Roadforms, Traffic Lights, Scaffolding, and most types of Contractors' Plant.

HUBERT C. LEACH, LTD., 131 High Street, Cheshunt, Herts.

Tel.: Waltham Cross 25161 (5 lines).

SOUTHERN BUILDERS AND CONTRACTORS (LONDON), LTD.

FOR HIRE:

19RBs, D7s, D4s, and Dozers/Scrapers, Drottis 4-in-1 and all Contractors' Plant at very competitive rates.

FOR SALE:

Jules Weitz G26 Electric Travelling 3-ton TOWER CRANE. Complete, as new. Well under list price.

3-ton Electric TOWER CRANE, as new.

David Brown 1yd. OVERLOADER, on crawlers. Little used.

David Brown Model TD50 Hydraulic DOZER. Condition excellent.

Write or 'phone:

Cranleigh, The Drive, Rickmansworth 2878 or 5235.

FOR HIRE.

44C Barber-Greene TRENCHERS.

DROTTS, with 4-in-1 Bucket.

DINKUM MAJOR, 18/30in. Bucket.

10RB EXCAVATOR, Skimmer and Backacter.

18/12 Bedford MIXERS, with Weighgear and Shovel.

14/10 Winget Hydraulic, with Weighgear.

Apply to Plant Manager, CROUDACE, LTD., Caterham, Surrey. Tel.: Caterham 4221, ext. 46.

STEEL SHEET PILES and TRENCH SHEETS urgently

WANTED. All sections bought; large and small quantities. Immediate payment.

DUDLEY VALE, LTD., 3 Buckingham Place, London, S.W.1. Victoria 0252.

FOR SALE, BTDC Drott Skid SHOVEL, with 4-in-1

equipment and cab, approx 18 months old and in first-class condition. Lying Lancashire.—Write Box P.1705, "The Contract Journal."

ONE good Second-hand 7/10-ton Electric Derrick

CRANE, Double Drum. — Write Box P.1784, "The Contract Journal."

CAN YOU SPOT THIS WEEK'S special bargain

Late 1957 J.C.B. Hydraulic EXCAVATOR, powered by Fordson 4D Diesel Engine, with electric lighting and starting, on nearly new 14 x 30 giant rear pneumatics and very good 750 x 16 fronts. Has the latest type Cab and Excavator with a 24in. Backacter Bucket and 1/2 cu. yd. capacity Front-mounted Loading Shovel. This is the best second-hand J.C.B. we have had yet. Price £1,350

1955 J.C.B. Hydraulic EXCAVATOR, powered by Ford 4D Diesel Engine, with L. and S. Counterweight Model with 3in. Backacter Bucket, on very good 11 x 36 and 750 x 16 pneumatics. Overhauled throughout at a cost of over £195. Tested and resprayed...£895

1955 J.C.B. Hydraulic EXCAVATOR, powered by Ford 4D Diesel Engine, with L. and S., on new remould 11 x 36 rears and very good 750 x 16 fronts, with Cab, Windscreen Wiper and J.C.B. Front-mounted 1/2 cu. yd. Hydraulic Shovel. Also 24in. Backacter Bucket. Overhauled, tested, resprayed...£795

1956 J.C.B. Hydraulic EXCAVATOR, powered by Ford 4D Diesel Engine, on very good 14 x 30 giant rear pneumatics and 750 x 16 fronts. Complete with 24in. Backacter Bucket, Operator's Cab, Windscreen Wiper, full road lights, and Front-mounted J.C.B. Hydraulic Shovel with 1/2 cu. yd. Bucket. Excellent, clean machine. A bargain...£850

1958 DINKUM DIGGER MAJOR, on Fordson Major Diesel Tractors, with new remould 14 x 30 giant rear pneumatics and very good 750 x 16 fronts. Operator's Cab, Wiper, L. and S., 24in. Backacter Bucket and Front-mounted Hydraulic Power Shovel with 1/2 cu. yd. Crowd Action Bucket. This machine has been overhauled at a cost of over £250. Offered for immediate delivery...£1,350

Late 1957 DINKUM DIGGER, on Fordson Major Diesel Tractor, with L. and S. and very good plant 14 x 30 rear pneumatics, good 750 x 16 fronts. Has Operator's Cab with windscreen wiper and Front-mounted Hydraulic Dozaloda, with 1/2 cu. yd. capacity Crowd Action Bucket. This machine has been overhauled and is in spotless condition...£1,150

1955 DINKUM DIGGER, with 24in. Backacter Bucket, powered by Fordson 4D Diesel Engine, L. and S., Operator's Cab, and very good 11 x 36 and 600 x 19 pneumatics. It is fitted with a Front-mounted Hydraulically Controlled Bulldozer for back filling, etc. Overhauled, guaranteed...£950

ERNEST DOE & SONS LTD.

Uiting, Maldon, Essex

Telephone: Hatfield Peverel 311 (Night 319).

19 & 33 R.B.s
T.D. & H.D.14s
MERTON OVERLOADERS
FOR HIRE
SAND & SHINGLE LTD.
FAGGS RD., FELTHAM, MIDD.X.
FELTHAM 3045

Diaphragm Pumps

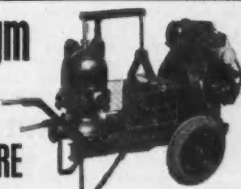
SALE or HIRE

All types and capacities available

DUKE & OCKENDEN LTD.

28 Victoria Street, London, S.W.1. ABBey 6338

Works: Littlehampton. Phone: SIX



hire it from... ABELSON

Tel: SHEldon 2424

TIGER VXT..at YOUR service..

THE ONLY EXCAVATOR FITTED BOTH WITH THE

UNIQUE "CROSS ROLL" BEARING AND TORQUE

CONVERTORS. AVAILABLE WITH CROWD

SHOVEL, DRAGLINE, TRENCHER OR SKIMMER.



WILSON
PLANT
HIRE LTD

Depot
WEEDON ROAD
NORTHAMPTON
PHONE · 4653 & 4654

MOORE'S MIXER HIRE

Winget 3/2 cu. ft. to 14/10 cu. ft.

Tel:
TOTTENHAM
0401
(10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

H. COX AND SONS (PLANT HIRE), LTD.,
OFFER FOR IMMEDIATE SALE:
10RB EXCAVATOR, Series No. 10254, Skimmer,
Backacter and/or Dragline Equipments.
10RB EXCAVATOR, Series No. 10255, Skimmer,
Backacter and/or Dragline Equipments.
10RB EXCAVATOR, Series No. 13452, Skimmer,
Backacter and/or Dragline Equipments.
10RB EXCAVATOR, Series No. 13772, Skimmer,
Backacter and/or Dragline Equipments.
10RB FORWARD SHOVEL EQUIPMENT.
19RB SKIMMER AND BACKACTER EQUIPMENT.
D6 TRACTOR, Series No. 5R1492, fitted Angledozer
Equipment and 6 cu. yd. Scraper.
Three Broomwade SCD2 3-tool Mobile COMPRESSORS.
One Broomwade SVD1 2-tool Mobile COMPRESSOR.
Several RB55 BREAKERS, CNP40 and CNP50 Picks.
Heavy Duty BUCKET and BULLDOZER BLADE for
114 Tractor.
Priestman 17/12 Double Rope GRAB.
Further details:
33 Southampton Way, Camberwell, S.E.5. ROD 2215.

FOR SALE.
24RB SKIMMER BUCKET and CARRIAGE
(new).
Two 10RB Ruston EXCAVATORS.
Two 17RB Ruston EXCAVATORS.
One 20RB Ruston EXCAVATOR.
Equipment to suit purchaser.
HUGH LEGGAT, LTD.
Gladstone Avenue, Barrhead, Glasgow.

WANTED.
Complete FACE SHOVEL EQUIPMENT for
SSRB Electric Excavator.

FOR SALE:
One SSRB Electric Machine, with Dragline only.
Write Box P.1780, "The Contract Journal."

FOR HIRE.
Four Broom and Wade SVD128 AIR COM-
PRESSORS, Lister Diesel, four pneumatics, from
1954 onwards. Overhauled.—Further details, apply
JOSEPH THOMPSON AND CO. (LIVERPOOL), LTD.,
Dutton Street, Liverpool, 3. Tel: Central 0820/3023.

FOR HIRE, DEMOLITION BALLS. From 10cwt. to
25cwt. £2 to £3 per week. Ideally suitable for
breaking large areas of concrete. Release catch
supplied if required.—HOWARD MITCHELL, LTD.,
63/67 Great Barr Street, Birmingham. VIC 4155.

SALE OR HIRE.
100 10ft. FRENCH SHEETS.
120 12ft. TRENCH SHEETS.

DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. Victoria 0252.

FOR SALE, PRIESTMAN WOLF, rigged for Clam-
shell. — **PLANT SALES, LTD.,** 25 Castlereagh
Street, London, W.1. Tel: Paddington 2663/5.

WANTED. Demas HAMMERS, all sizes: required
for purchase.—Write Box P.1753, "The
Contract Journal."

COMPRESSOR FOR SALE OR HIRE, 500 cu. ft.
Reasonable rates. — **D. W. STONE, LTD.,**
St. Leonards Road, Hove, 3, Sussex. Tel: Hove 46396.

HAVE MONEY—WILL TRAVEL

If you have SURPLUS PLANT but prefer surplus
cash—if you wish to sell but have no time for
so-called agents—if you are satisfied with a reasonable
price for your surplus plant—then contact, with date,
condition and price:

FIELDS,
Forest Edge, Ringwood Road, Ferndown, Dorset.

PLANT HIRE SUGGESTIONS

CONCRETE BREAKING:
H Type Kangoo Hammer, universal 210/230-V,
ideal 12in. concrete, silent, trouble-free,
£6 10s. week.
Compressor, £1 hour, including operator.
Warsop Road Breakers (the self-contained
concrete breaker), £4 5s. week.
FLOOR SANDERS:
Nu-Floor, 8in., £5 week.
RAMMERS:
Warsop, £5 week.
TARPAULINS:
18ft. x 12ft., 6/- week; 18ft. x 15ft., 7/6 week.
CONCRETE MIXERS:
3/2 Petrol, £1 10s. week. Also complete range
SITE HUTS:
11x6 ft. super. week.
WARSOP PUMPS:
2in., 6,000 gallons per hour, £4 5s. week.
RAILWAY SLEEPERS:
8ft. 6in. x 10in. x 5in., 10d. week.
ALSO COMPLETE RANGE OF MECHANICAL
AND NON-MECHANICAL PLANT

CAMPBELL-GRAY LTD.

66/70 Fenge Rd., South Norwood, London, S.E.25
Telephone: SYD. 3131 (3 lines)

PLANT BARGAINS Ex Stock.
DINKUM MAJOR and Power Shovel, Cab, two
Buckets, 1958, £1,650.
KL44 Jones 4-ton CRANE, pneumatics, Diesel, 24ft.
Jib, 1950, £450.
Drott 4-in-1 SKID SHOVEL, BTDE, 1958, £2,450.
Holman 1959 TRACTAIR, 1954 Major Diesel Tractor,
£625.
Allen T6K Mobile CRANE, 40ft. Jib, c/w Skimmer,
Trencher and many extras, new 1955, Gardner
Diesel, £4,500.
Rapiel 6 1/2-ton Super fully slewing CRANE, on
rubbers, £2,000.
Jumbo 3-ton Diesel Hydraulic Grab CRANE, 1 1/2 cu.
yd. grab, first-class, new 1951, £950.
Coles 2 1/2-ton fully slewing CRANE, Perkins Diesel,
pneumatic tyres, £975.
Fowler Diesel ANGLEDOZER, with Trailer, £400.
Wallis and Stevens 2 1/2-ton Diesel ROLLER, Sprinklers,
£450.
Eezion 5/7-ton Low Load PLANT TRAILER, almost
new, £350.
Rapiel 410 EXCAVATORS, Diesel, Skimmer, Trencher,
Face Shovel, from £950.
Greens 6 1/2/7-ton ROLLERS, ex Ministry, petrol/
paraffin, with spray gear, £650.
Greens Uniroil 15cwt. Pedestrian Footpath and Drives
ROLLERS, £175.
Bray BL25 Crawler SHOVEL, 1 1/2yd., 4D Diesel,
blade included, £750.
BUCKET and BLADE for BTDE Drott Skid Shovel,
the two £90.
A.C.E. Mastermobile Diesel 10cwt. Mobile HOIST,
pneumatics, £185.
DINKUM DIGGERS, on Diesel Tractors, with Front
Shovels, from £800.
Aveling-Barford 4-ton Petrol ROLLER, ex Ministry,
very good, £475.
Rapiel 4in. Diesel PUMPS, Perkins P4, on four
wheels, £185.
Rex 14/10 Closed Drum Diesel MIXER, Ruston engine,
£300.
Stothert 10/7 Diesel MIXERS, power loader, £185.
A.C.E. 7cwt. TRICRANE, pneumatics, J.A.P. engine,
£120.
Douglas PLATFORM TRUCK, 6ft. x 3ft. 3in. platform,
£75.
Benford 5/3 1/2, four steel wheels, Petrol, £65 each.
Climax 2-tool COMPRESSOR, Perkins P4 Diesel, four
wheels, £300.
Chasides 1 1/2yd. ROPE SHOVEL, Petrol, ex Council,
£125.
Pegson 4in. Contractors' PUMPS, 36,000 g.p.h.,
crated, ex Ministry and unused, Morris engine,
gift, £125.
Smith 2/10 EXCAVATOR, Diesel, Face Shovel, 1946,
£475.
Rapiel 6-ton Petrol/Electric CRANE, ex Ministry,
£650.
Morris 2 1/2-ton Petrol/Electric CRANE, ex Railways,
£350.
Road Machines 12yd. Portable BINS, four wheels, ex
Weighbatcher, £175.
4ft. x 2ft. MECHANICAL RIDDLING MACHINES,
Petrol Engine, £45 each.
WILLIAM R. SELWOOD, LTD.,
Chandler's Ford, Hants. Phone 2275.

FOR HIRE

Drott Skid Shovels with 4 in 1 Bucket.
Compressors 2 to 12 Tons.
Vibrating Rollers, Crane Skips.
Platform Hoists, Scaffold Jib Cranes.
Concrete Mixers, 4/3 to 14/10 cu. ft.
Diesel Driven Pumps.
Diesel Welding Plants.

JOSEPH THOMPSON & Co.
(Liverpool) Ltd.

Dutton Street, Liverpool, 3.
Central 0820 & 3023

SHAWNEE POOLE DUMP TRUCKS
FOR HIRE

We operate the largest hire fleet of these
machines in England; consult us for all
your requirements.

Our hire fleet also includes D.8's, D.7's,
D.4's with Scrapers, Drott Shovels, Ex-
cavators all sizes, and 25 ton Low Loaders.

PLANT HIRE OR CONTRACT

IRVING AINSWORTH (MORLEY) LTD.

MORLEY • Nr. LEEDS
Phone: MORLEY 1000-1-2

GRAYSTONS OFFER FOR SALE.
E.1110.—20RB EXCAVATOR, 4400 Series,
F/S Equipment, £1,400.
E.1122.—22RB EXCAVATOR, 16800 Series, Drag-
line Equipment, £3,800.
E.1077.—24RB EXCAVATOR, 11000 Series, Dragline
Equipment, £2,250.
E.1085.—37RB EXCAVATOR, 7300 Series, Dragline
Equipment, £2,100.
E.1131.—38RB EXCAVATOR, 19000 Series, F/S
Equipment, £7,000.
E.994.—38RB EXCAVATOR, 22000 Series, Dragline
Equipment, long and wide tracks, £9,850.
E.1089.—43RB EXCAVATOR, 19000 Series, F/S
Equipment, £7,000.
E.1115.—802 Lima EXCAVATOR, G.M. Engine, 70ft.
Dragline Equipment, £4,000.
T.1064.—BTDE TRACTOR, with Bulldozer, 1956
machine, £1,050.
TS.7.—Drott SKID SHOVEL, new 1957, £1,925.
TE.461.—Sheepsfoot ROLLER, 2 1/2 tons unladen, 4 1/2
tons ballasted, £275.
TE.460.—3-line Ruston RIPPER, £360.
C.895.—Lorain MC3 7 1/2-ton Lorry-mounted CRANE,
£4,500.
C.892.—Smith 7-ton Steam Loco. CRANE, 50ft. Jib,
standard gauge, 67 1/2 gauge, £750.
C.891.—Bulldmaster Tower CRANE, Model BDK150,
new 1954, 2 1/2-ton capacity, excellent order,
£1,150.
PP.47.—Woodfield 50ft. RAKING PILE FRAME, with
No. 14 Spencer-Hopwood Boiler and 3-ton
Double Drum Winch, £1,850.
D.125.—Four Euclid Model 27FD Rear Dump
TRUCKS, with Cummins Engines, £1,825 each.
D.132.—Two Muir-Hill 108D 3 cu. yd. DUMPERS,
Perkins P6 Diesel Engines, electric starting,
good condition, £325.
A number of Tower and Derrick Cranes available,
from 30cwt. to 15-ton capacity. Various models and
makes to cover a comprehensive range.
GRAYSTON PLANT & ENGINEERING CO., LTD.,
32 Stewards Road, London, S.W.8.
Tel: Macaulay 6688 (10 lines).

FOR SALE.
One COUNTY CRAWLER, Perkins P6 Diesel,
fitted with Hydraulic 1yd. Loading Shovel.
Recently overhauled, £795.
One Bristol BULL ANGLEDOZER, Perkins Diesel
Engine. In excellent condition, £300.
One Fordson 4D BASIC TRACTOR, 1953. In good
working order, £250.
Apply: **THE WEYBRIDGE ENGINEERING CO., LTD.,**
Heath Road, Weybridge, Surrey. Weybridge 3038.

FOR SALE. 6-ton Ransomes and Rapier Super All-
round Slewing Petrol/Electric Mobile CRANE
(Diesel conversion available).—**WILLIAM G. SEARCH,**
LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10
lines).

WANTED urgently, Chasides or Weatherill
LOADING SHOVEL, in good used condition, for
cash.—Write Box P.1808, "The Contract Journal."

ROAD MACHINES Double Bucket SWING
WEIGHER, in almost new condition. — **W. V.
DAVIES,** Shipston-on-Stour. Phone 125.

AXWORTHY OFFER

FOR SALE:
10RB EXCAVATOR, 20200 Series, F/S. Excellent
condition, £2,100.
19RB EXCAVATOR, 17000 Series, Dragline. Excellent
condition, £3,750.
19RB EXCAVATOR, 17800 Series, F/S. First-class
condition, £3,950.
22RB EXCAVATOR, 16000 Series, Dragline. Very
good condition, £3,750.
22RB EXCAVATOR, 19800 Series, F/S. Good con-
dition, £3,650.
100RB EXCAVATOR, 8000 Series, F/S. Very good
condition, £12,950.
Priestman Cub Mark V EXCAVATOR, 8000 Series,
new 1958, Skimmer/Backacter, £3,250.
Smith Super 10 EXCAVATORS, new 1952, Skimmer/
Backacter, £1,500 each.
Neals 2-ton MOBILE CRANE, N120 Series, Channel
Jib, pneumatics. Completely overhauled and
repainted. Excellent condition, £950.
Neals NM 2-ton MOBILE CRANE, NM2300 Series,
40ft. Lattice Jib, pneumatics. Very good con-
dition, £975.
Coles 6-ton MOBILE CRANE, new 1951, 17ft. Can-
tiller Jib, pneumatics, £2,250.
Anderson-Grice 10-ton DERRICK CRANES, 120ft.
Jibs, 2-motor Electric. New 1958. Little used.
Aveling-Barford 7-ton and 8-ton ROAD ROLLERS.
Little used, £1,000 each.
CRUSHING AND SCREENING PLANT.
Drott 4-in-1 SKID SHOVELS, choice of two, £2,395
each.
Caterpillar TRACTOR SPARES.
FOR HIRE:
Drott 4-in-1 SKID SHOVELS.
Ring Windsor 60665.

AXWORTHY AND COMPANY, LTD.,
4 Ousley Road, Old Windsor, Berks.

FOR HIRE

All Contractors' Plant

SLOGGETTS (ENGINEERING)
CO. LTD
HAMPTON HILL, MIDDX. Taddington Lock 1138/9



hire service

CERTAINLY, CONSULT THE SPECIALISTS...

COVENTRY COMPRESSORS LTD

Stewarts Road, Battersea, S.W.8 • Tel: Macaulay 7231 (3 lines)

MOBILE & PORTABLE AIR COMPRESSORS
PNEUMATIC TOOLS
DERRICKS DUMPERS ETC.



... no rivets?

*There aren't so many rivets in to-day's steelwork,
because Britain's steel industry is now rolling
new beams and columns, so proportioned as
to carry the load without needing riveted-on plates.
Welding too reduces the amount of riveting, and
results in a neat, compact construction.*

CHEAPER

These advances mean that the finished structure is cheaper, because steel and labour are saved.

STRONGER A higher safe working stress is now recognized, again reducing the amount of steel needed for a given job.

FURTHER SAVINGS Fire-proof encasement, hitherto calculated as a burden on the steelwork, is now accepted as contributing to its strength: so that columns can be slimmer, saving steel and labour.



B.C.S.A

A STEEL-FRAMED BUILDING IS ALWAYS A SOUND
INVESTMENT BECAUSE ITS SECURITY IS UNQUESTIONABLE
AND IT IS SO EASILY ALTERED OR ADAPTED

BRITISH CONSTRUCTIONAL STEELWORK ASSOCIATION, WESTMINSTER, S.W.1

Over the Counter

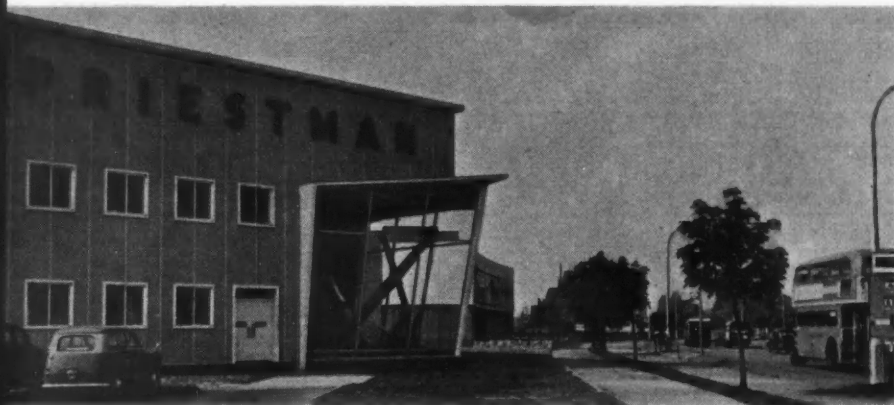


**THE BUILD-UP
OF THE
FIRST & FINEST
EXCAVATOR
SPARE PARTS
NETWORK**



HULL

Newest Spares Depot, specially built for Spares service, alongside our Marfleet Works. First contact David Simpson, whose practical experience taught him how important speed can be! Ring Hull 75111. Extensions 43, 44 or 45.



LONDON

Great West Road, Brentford, Middlesex. (Telephone Ealing 6717). Opened four years ago, since when Reg. Jacobs has dealt with thousands of "emergencies." Road, rail—or air despatch are all easy from Brentford.



GLASGOW

1660 London Road, Glasgow E.1. Telephone Bridgeton 6684. Scotland's FIRST Excavator Spares Depot; and still, in the opinion of Tom Carson, as good as any! Tom's services have saved Priestmans' Scottish users thousands of hours of downtime.



PRIESTMAN BROTHERS LIMITED • HULL • ENGLAND • TELEPHONE 75111

Spares Service

Yet another *PRIESTMAN* Spares Depot!

***PRIESTMAN* USERS
now get the finest service
of all!**

Glasgow. Then London. And Birmingham. Now Hull!

We've built these depots to bring Priestman nearer to you.

The opening of Priestman's FOURTH "drive-in" Spares Depot means that Priestman users enjoy the finest service of all.

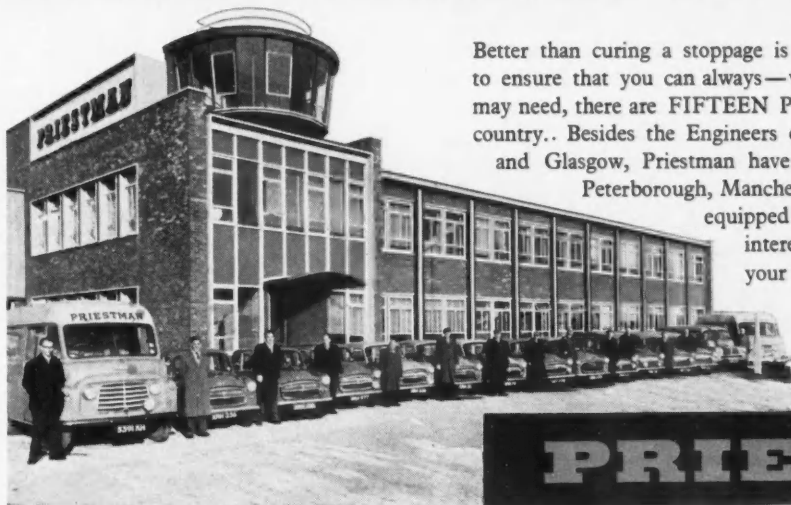
Priestman Spares Depots hold greater physical stocks of parts; are highly organised to give 24-hour service on urgent orders, and of course, especially welcome "personal shoppers"!

The finest service ever offered by any excavator manufacturer — No wonder the swing is to Priestman.



BIRMINGHAM

2111 Coventry Road, Sheldon, Birmingham 26.
Telephone Sheldon 4481. Carefully planned,
strategically located and specially built
for maximum efficiency and fast service.
Proud of his high average of "same-day"
deliveries is Tom Hubbard, Head Storeman.



Better than curing a stoppage is to prevent it! And to help you do this; to ensure that you can always—without delay—get any help or advice you may need, there are FIFTEEN Priestman Service Engineers spread over the country.. Besides the Engineers operating from Hull, London, Birmingham and Glasgow, Priestman have Resident Service Engineers at Taunton, Peterborough, Manchester, Cardiff and Newark....all trained and equipped to cope with any emergency....all vitally interested in ensuring you get the best out of your Priestman excavator.

PRIESTMAN

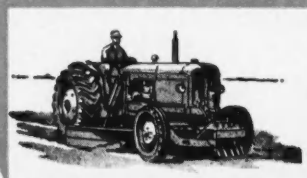
6 WHEEL DRIVE WHEEL STEER GRADER

★ ONE OF THE AVELING-BARFORD RANGE

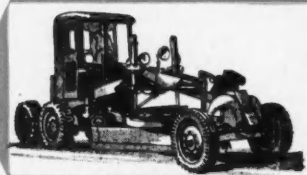
The Super 'MG'

113 b.h.p. engine, plus controlled traction, full hydraulic control including — steering, precision blade side-shift, high-lift blade, rotation of blade circle — and six forward and two reverse speeds, equip the super MG for every grading task from the tough and difficult to fine grade finishing.

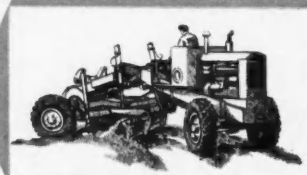
Full particulars of the Aveling-Barford range of Motor Graders sent on request.



RM. 8,560 LB. 52 B.H.P.



LG. 16,000 LB. 72 & 89 B.H.P.



MG. 20,000 LB. 93 & 100 B.H.P.
MGH. 21,500 LB. 100 & 113 B.H.P.



SUPER MG. 23,000 LB. 113 B.H.P.



99 H. 23,000 LB. 127 B.H.P.



Aveling-Barford

SUPER MC GRADER

AVELING-BARFORD LIMITED · GRANTHAM · ENGLAND

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

BEFORE deciding, view this plant. Immediate delivery, and terms arranged. For SALE: 100,000ft. Steel SCAFFOLDING TUBE; 5,000 FITTINGS. All serviced; 2,000 Blade End PUTLOGS. 5ft. and 6ft.; 500 Acrow type PROPS; 500 TRENCH PROPS; 10,000ft. SCAFFOLD BOARDS, fully bound. Immediate delivery. —M. SANDERS, LTD., 18/20 Medlar Street, London, S.E.5. Tel: ROD 5143.

CONVEYOR BARGAINS. 100 18in. x 6in. pitch, 8ft. gravity ROLLER CONVEYORS at £4 each. 45° BENDS for 18in. x 6in. pitch gravity Roller Conveyors at £2 each. WILLIAM R. SELWOOD, LTD., Chandler's Ford, Hants. Tel. 2275.

RAILS, RAILWAY LINE ATTACHMENTS, RAILWAY SLEEPERS of all grades and CROSSING TIMBERS from 8ft. 6in. to 20ft. long for SALE. Deliveries ex stock. State use required for.—F. HIRD AND SONS, Armthorpe, Doncaster. Telephone: Armthorpe 339.

SYKES PUMP, 8in., fitted Ruston 4VSH Diesel Engine, completely overhauled as new, £345. Also 4in., fitted 2-cyl. Lister Diesel, £65; and 4in., fitted Ruston, £85.—J. COPELAND, 706 Old Kent Road, S.E.15. Telephone: New Cross 3655.

FOR SALE, Portable Conveyor ELEVATOR, 40ft. jib, 24in. wide belt, fitted with rotary scalper screen. Best offer over £400.—Apply F. AND R. CAWLEY, LTD., 62 Wingate Road, Luton (S2525), Beds.

WELDING PLANT for HIRE. Diesel-driven Welding Plants, single and twin. Any part of country. Operators if necessary.—UNDER WATER WELDERS AND REPAIRERS, LTD., Roath Basin, Cardiff.

FOR HIRE, 25-ton Neals 8-wheel Lorry-mounted CRANE. Boom to 120ft. and 30ft. Fly. BUTTERWORTH, LTD., Winterton Road, Scunthorpe (Tel. 2097), Lincs.

SMITH 2/10 3/4 cu. yd. EXCAVATOR, Diesel, complete with Trencher and Skimmer, in working order, £275.—LEACH, High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161.

BEANSTALK Hydraulic PLATFORM, 25ft. trailer type, as new, £95.—J. COPELAND, Dear Leap Farm, Knockholt Rd., Halstead, Kent. Knockholt 2313.

VALES PLANT REGISTER, LTD.

OFFER FOR IMMEDIATE SALE: EXCAVATORS: RANSOMES 414, new 1955, 4-in-1 equipment, excellent condition, £2,350.

PRIESTMAN WOLF Mk. IIIB, new 1955, Skimmer and Backacter, excellent condition, £2,250.

2/10 SMITH, 3/4, Dragline, Skimmer and Backacter, £475 each.

10RB, 13900 Series, Skimmer and Backacter, £1,450.

10RB, 19000 Series, any one equipment, very good condition, £1,950.

10RB, 20000 Series, any one equipment, very good condition, Price £2,275.

19RB, 3/4, 11000 Series, Dragline or Skimmer and Backacter, £1,850.

19RB, 3/4, 13500 Series, Backacter or Dragline, £2,250.

RANSOMES 423, new 1952, any one equipment, £1,500.

33RB, 9800 Series, Dragline, good working order, £3,250.

38RB, 12000 Series, F/S and Dragline, £8,750.

43RB, 18300 Series, Dragline and F/S, new August, 1954, very good condition, £9,250.

43RB, 9700 Series, Dragline and F/S, excellent condition, £6,000.

54RB, 9000/21000 Series, some with Dragline, others F/S, from £7,000.

110RB, 21000 Series, F/S, good condition, £26,500.

RANSOMES W90, Diesel, 100 Dragline, 2 1/2 yd. Bucket, very good condition, £7,000.

FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.

Further details: 14 Lower Grosvenor Place, London, S.W.1. VICTORIA 7531, 3501, 8080, 9886 (15 lines).

FOR COMPRESSOR HIRE SERVICE. From 1-tool to 12-tool (70 c.f.m. to 625 c.f.m. f.a.d.), Lorry-mounted and Portable. Full range of Pneumatic Tools.—HUBERT C. LEACH, LTD., High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

SURPLUS PLANT (all types) and MATERIALS regularly PURCHASED in small or large parcels. Rapid inspections, prompt payment.—E. H. CHURCH AND CO. (EDMONTON), LTD., 68-70 Penge Road, South Norwood, S.E.25. Tel.: SYdenham 3131-3.

FOR HIRE, 22RB or 19RB Crane JIB: extensions up to 75ft.—YOUNG, Shettleson 2351.

SURPLUS CONVEYOR BELTS. New, unused and second-hand. Most widths up to 36in. in stock for immediate delivery. Second-hand Belts supplied on sale or return basis.

G. E. SIMM (MACHINERY), LTD., Sheffield: 27 Broomgrove Road (Tel. 64436).

Glasgow Area: Luggie Bank Road, Kirkintilloch (Tel. 2468). London: 33 St. George's Drive (Tate 8772).

South Wales: T.F.S. Kingsway Trading Estate, Bridgend (Tel. 1567).

LORAIN MOTOCRANE, 20 U.S. tons capacity, Model 6620, 6 x 6 drive, power steering, screw outriggers. Precision lowering boom and hook. Waukesha Multifuel Gasoline Engines. Fitted 35ft. Boom. New condition throughout. Further extensions available at extra. £7,000.—WOOLFENDEN'S GARAGES, LTD., 315 Prescot Road, Liverpool, 13. Telephone: Stoneycroft 9087.

FOR SALE OR HIRE. Bristol OVERLOADERS and BULLDOZERS, new and reconditioned.

Barford DUMPERS and MIXERS. Portable Diesel AIR COMPRESSORS.

C. AND A. PLANT SERVICES, LTD., 202-212 Heald Grove, Rusholme, Manchester, 14. Tel: RUS. 7291.

FOR SALE, 12/21 Allen-Parsons TRENCHER, No. 40992, with Dorman 4DWD Diesel Engine No. 59270, 18in. Bucket Line and Side Cutters for 2ft. 3in. wide trench, excellent condition, £1,700.

Apply TILBURY CONSTRUCTION CO., LTD., Ruscombe Works, Twyford, Berks.

RANSOMES AND RAPIER 410 EXCAVATOR, fitted with Perkins P4 Diesel Engine, Skimmer and Backacter Equipment, in good working order, £550.

L. W. VASS, LTD., Amphil, Bedford. Tel.: Amphil 3255.

FOR SALE, 7/9-ton Aveling-Barford TANDEM ROLLER, year 1955, excellent condition, £1,775.

GENERAL ROADWORK, LTD., 616 Mitcham Road, Croydon, Surrey. Tel.: Thornton Heath 8252.

TOURNAPULL in Scotland for HIRE, special cut rates and no work—no pay.—Write Box P.1809, "The Contract Journal."

WANTED, Caterpillar HT4 TRAXCAVATOR. Please advise condition, age and price.—Write Box P.1782, "The Contract Journal."

Dandridge's of Greenwich
for
Thwaites
Dumper Hire

Telephone GREENWICH 6333-4-5-6
DANDRIDGE'S PLANT DEPOT
129-143 WOOLWICH ROAD, S.E.18

DUMPERS FOR SALE

THWAITES (official) STOCKISTS

ROAD ROLLERS
FOR HIRE OR SALE
10 CWTs. to 10 TONS
with or without drivers
HALTRAC LIMITED
Bourne Works, Weimar St., S.W.15.
PUTney 4185

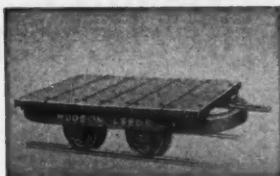
Rapid expansion has decreed us Greater
London's Largest Fleet Owners of
1960 1 yd. "DROTT" SKID SHOVELS



Always available for Hire
Your personal contact: MR. RONALD GENT
Tel.: THOrnton Heath 3402/3/4

POWER PLANT HIRE (Beddington) LTD.
Beddington Lane, Croydon, Surrey

PORTABLE RAILWAY MATERIAL
10 MILES NEW 2ft. GAUGE 20 lbs. TRACK ON HEAVY STEEL SLEEPERS
POINTS AND CROSSINGS, TURNABLES, ETC., TO MATCH



150 Hudson 2 ton and 4 ton
2ft. gauge Platform Wagons



200 Hudson "Rugra" 27 cu. ft.
2ft. gauge Side Tipping Wagons

2ft. GAUGE DIESEL LOCOMOTIVES BY MOTOR RAIL AND RUSTON

JOSEPH PUGSLEY & SONS LTD
BRISTOL 5.

Tel: BRISTOL 56037

GRAMS: PISTON BRISTOL

Ernest Doe & Sons Ltd

JCB

DISTRIBUTORS

offer for immediate delivery ex stock
Croydon

New JCB Hydra-Digger/Loadall.....£2,368

Full range of buckets and extra
equipment at listed prices.

All JCB Spares ex stock Croydon.

Also the following SECOND-HAND MACHINES

JCB Hydraulic EXCAVATOR, powered by Ford 4D Diesel Engine, with cab, good tyres, and 18in. and 24in. Backacter Buckets and Front-mounted Hydraulic Shovel with 1/2 cu. yd. Bucket and Dozer Blade. Overhauled and resprayed£765

Dinkum DIGGER, on Fordson Major Diesel Tractor, with cab, good tyres, and 18in. and 24in. Buckets and Skyhl Front-mounted 3/4 cu. yd. Loading Shovel. Overhauled and resprayed£850

Muir-Hill 14B 4 1/2 cu. yd. DUMPER, powered by Perkins P6 Diesel Engine, very good pneumatics. Overhauled and resprayed£575

Bray HL20 Hydraulic LOADING SHOVEL, with 3/4 cu. yd. Crowd Action Bucket, powered by Ford 4D Diesel Engine, fitted new remould 1200 x 24 rear pneumatics, good 750 x 20 fronts. Overhauled throughout£750

Bray Hydraulic LOADING SHOVEL, powered by Perkins P6 Diesel Engine, with 3/4 cu. yd. Bucket, good tyres. All in good working order£350

New type Fordson Major Diesel TRACTOR, with electric starting, hydraulic lift and linkage, new remould 11 x 36 rear pneumatics, good 600 x 9 fronts. Overhauled and resprayed£350

County BULLDOZER, powered by Ford 4D Diesel Engine, and fitted Bray Hydraulic Angledozer. This is a very good clean machine and is a bargain at£850

Fiat 55L BULLDOZER, wide gauge, wide tracks, fitted Mackay Hydraulic Angledozer. Overhauled throughout. Immediate delivery£1,250

Howard Rotary Hoe TRENCHER, powered by Ford 4D Diesel Engine, and fitted Rotoped tracks. Cuts drainage trenches 8in. wide, 42in. deep, complete with pipelayer. These machines are in short supply£1,050

Get your Spares and Service from:

Ernest Doe & Sons Ltd
THERAPIA LANE, MITCHAM ROAD,
CROYDON, LONDON.

'Phone: Thornton Heath 4844—day and night.



CRANE HIRE

Low-Loading Vehicles to 45-ton capacity

FREDERICK ATTWOOD LTD.

257-273 WOOD STREET
WALTHAMSTOW
LONDON, E.17

COPpermill 1151 (4 lines)

★ Further Classified Plant Advertisements on pages 601-608

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

FOR HIRE AND SALE: ARMSTRONG-WHITWORTH PNEUMATIC POKER-TYPE CONCRETE VIBRATORS.

We are distributors for all types of Armstrong-Whitworth Pneumatic CONTRACTORS' TOOLS, including Concrete Breakers, Light Picks, Clay Diggers, Rock Drills, Pumps, Backfill Rammers and Tampers, Hoses and Accessories. We hold a large stock of Spares and can give a 48-hour repair service. New and Second-hand Air Pumps COMPRESSORS for SALE. Send for list.

HUBERT C. LEACH, LTD., 131 High Street, Cheshunt, Herts. Tel.: Waltham Cross 25161 (5 lines).

LOGGETTS PLANT HIRE. — For COMPRESSORS: TRACTORS: DINKUM DIGGERS: DOZERS: CALF-DOZERS: CRANES: ROAD ROLLERS: FLOOR CENTRES: Acrow PROPS: PAINT SPRAYERS: MOBILE SITE OFFICES: PUMPS: HOISTS, 8/15cwt.; ROADFORMS, 5in. to 10in. Light and Heavy Section. All CONTRACTORS' PLANT, long or short HIRE. — 2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

REMEMBER that PLANT SALES, LTD., have the finest fleet of Heavy-duty Lima CRANES for HIRE. Consult them about your craneage problems. PLANT SALES, LTD.,

25 Castlereagh St., London, W.1. PADDINGTON 2653/5.

FOR HIRE, 5-, 10-, 15- and 25-ton Truck-mounted CRANES, Booms to 120ft., Flyjibs 15ft. and 30ft. BUTTERWORTH, LTD., Winterton Road, Scunthorpe (Tel. 2097), Lincs.

FOR SALE OR HIRE, Latest type AIR LOCKS, L.P. COMPRESSORS and MEDICAL LOCK for calson sinking. — A. E. FARR (PLANT HIRE), LTD., Westbury, Wilts. Tel. 356.

DROTT SKID SHOVEL BTDS, fitted with Boughton Winch, for HIRE at keenest rate. — JAMES COOPER, LTD., 28 Kensington Church Street, London, W.8. Tel.: Western 3412.

FOR SALE, DINKUM DIGGERS, in good working order, from £550. — Further details from GROCOCK AND DAY (PLANT HIRE), LTD., Mayfield Road, Leicester. Tel.: Leicester 58148.

TOWER CRANE for SALE, 3-ton, Reich Electric, with carriage ballast blocks. A bargain. — Tel.: MIT 4082.

J. J. JOHNSTON AND COMPANY, LTD.

OFFER FOR HIRE: Neals QM 4/6-ton capacity MOBILE CRANES, 24/40ft. jibs, heavy-duty tyres.

Rapier 6-ton capacity Standard MOBILE CRANES, on solid or pneumatic tyres.

Neals G 15cwt. capacity Portable CRANE.

Jules Weitz G15HYA TOWER CRANE.

Drott 1 cu. yd. TRACTOR SHOVELS.

Rapier 3/4 cu. yd. Crawler-mounted EXCAVATORS, all equipments.

DUMPS, 15cwt. and 22 1/2cwt. capacity.

COMPRESSORS, 2- and 4-tool, portable and lorry-mounted.

CONCRETE MIXERS, 5/3 1/2 to 14/10 cu. ft. capacity.

SWING WEIGHBATCHERS, 14 cu. ft. Double Bucket.

Rapier Centrifugal PUMPS, 2in. to 4in.

Wickham Diaphragm PUMPS, 3in. and 4in.

Stothert and Pitt 6 1/2cwt. Vibrating ROLLERS.

271 Uxbridge Road, London, W.12.

Tel.: Shepherds Bush 6941.

LINDSAY MUIR AND CO., LTD., announce change of registered office from Oakley, The Park, Cheltenham, to Lloyds Bank Chambers, Raleigh Street, Plymouth (Telephone: Plymouth 69030).

Plant Depots operate at 13/14 Cremyll Street, Plymouth (Telephone: Plymouth 67779); and

Andoversford, Cheltenham, Glos. (Telephone: Andoversford 351).

FOR HIRE:

TRACTORS, DOZERS, SCRAPERS, TRAXCAVATORS, EXCAVATORS, CRANES, DUMPS, COMPRESSORS, CONCRETE MIXERS, etc.

FOR SALE, D6 2H, fitted Blaw Knox 11ft. 6in. Blade, well maintained and in running order, £500 o.n.o., or PART EXCHANGE D4.—DOUGLAS-HAMILTON, LTD., Tunbridge Wells. Telephone: Southborough (Kent) 1538.

FOR HIRE, Lorry-mounted MOBILE CRANES—3-ton, 5-ton and 10-ton Coles, 2-ton Hydracranes and Jones, Jib lengths up to 60ft.

COVENTRY MOTOR SPARES.

Guison Road, Coventry. Telephone 63431.

WANTED, complete CRUSHING AND SCREENING PLANT capable 90 t.p.h., 2 1/2in. down, with Storage Hoppers. Must be in good condition.—Write Box P.1671, "The Contract Journal."

WELDING PLANT FOR HIRE.

Also: COMPRESSORS, MOBILE CRANES, LIGHTING PLANTS.

RYE-ARC, LTD., Plant Hire Division, Silvertown Works, North Woolwich Road, London, E.16. 'Phone: ALbert Dock 4381 (10 lines).

THE UNUSUAL PLANT SERVICE.

We claim to have the most comprehensive PLANT HIRE SERVICE in this country, and you can obtain from us almost everything the builder requires, from a drain plug to an excavator. Our lorries deliver in the London area every day. Note the telephone No.: Brentwood 2116. — SYMES (PLANT), LTD., Ongar Road, Brentwood, Essex.

WORKING in the Lancs. and Cheshire areas! Woolfenden's are your MOBILE CRANE people. Light or heavy. Loran, Michigan. Quick-Way, Neals. Jib lengths to 100ft.

WOOLFENDEN'S, Anfield, Liverpool, 4, Stoneycroft 3755.

FOR SALE, TOWER CRANE, Buildmaster 360, 3 1/2 tons at 31ft., 25cwt. at 85ft., new 1957, two contracts only, complete with trailing cable, safe load indicator, extension insert for mast, spares, etc. Can be seen erected London area.—Write Box P.1655, "The Contract Journal."

FOR SALE, new and used Bristol Diesel CRAWLER TRACTORS, with Angledozers, Loading Shovels and Trench Diggers.—Demonstrations without obligation from the Main Dealers H. A. SAUNDERS, LTD., 14-20 The Butts, Worcester. Telephone 6651.

IF YOU WANT TO PURCHASE OR HIRE any CONTRACTORS' PLANT, please get in touch with METAL UNION (PLANT), LTD., 75 Victoria Street, London, S.W.1. Telephone: VICTORIA 4868/9, 7429, 2177/8.

FOR SALE, 4 1/2-ton Neals QM MOBILE CRANE, new 30ft. jib, Ruston Diesel, on crawler tracks. Excellent condition. Nearest £1,250 for quick sale. COLCHESTER TRACTORS, LTD., Hythe Hill, Colchester. Telephone 6161.

WANTED, Ingersoll-Rand K105 COMPRESSORS: any condition.—E.C.P.H., LTD., 14 Hills Road, Cambridge.

DIESEL WELDING PLANTS FOR HIRE

JOHN DAVIES (LIVERPOOL) LTD.
70 Regent Road, Liverpool 5.
Telephone: NORTH 2405/2406.

FOR HIRE

CONTRACTORS'
PLANT
AND LOW
LOADING
VEHICLES
OF ALL TYPES
AND SIZES

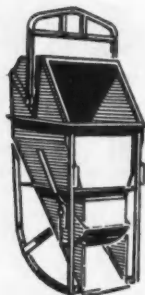
A. E. FARR (Plant Hire) LTD

WESTBURY • WILTS • Tel: 356 (5 lines)

ABELSON

ROLLOVER SKIPS

In 5 sizes up to 1 cu. yd.
from stock



other sizes made to order

ABELSON

& CO. (ENGINEERS) LTD.

SHELDON • BIRMINGHAM 26

Phone: SHELDON 2424 (10 lines)

Grams: ABELSON, BIRMINGHAM

ALSO AT LONDON & MANCHESTER

Ernest Doe AND SONS LTD

ULTING MALDON ESSEX

Telephone:

MATFIELD PEVEREL 311

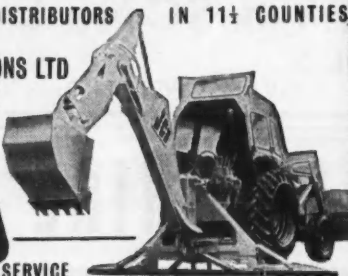
(Night 319)

TRADE SUPPLIED

SALES SPARES



SERVICE



HIRE Saxton COMPRESSORS DUMPERS VIBROLLS PNEUMATIC TOOLS

Saxton
LTD LONDON LTD

Head Office & Works

ESKDALE ROAD, INDUSTRIAL ESTATE
UXBRIDGE, MIDD. Uxbridge 8644-5-6-7

NORTH-WESTERN
Manchester
Ardwick 6192

NORTH-EASTERN
Darlington
Aycliffe 2277

MIDLANDS
Walsall
Bloxwich 75219

SOUTH WALES
Bridgend
Bridgend 1170

TRACTABILITY

The Track - Marshall sets unsurpassed standards in easy handling, maintenance and performance.



The latest development of the earlier Marshall and Fowler tractors has been specially designed for easy handling.

The steering is light and responsive. The foam rubber seating and conveniently grouped controls cut driver fatigue. The engine is quick starting and maintenance is simple.

There's plenty of power too! The Perkins four

stroke diesel engine develops 55 b.h.p. at 1,800 r.p.m. Furthermore the complete range of matched Marshall equipment means that most jobs are well within its capabilities.

If you would like to know more about this tractable and reasonably priced crawler (£1736 ex-works) or would like a demonstration, Wards will willingly arrange—just telephone or write.

THOS. W. WARD LTD

ALBION WORKS, SHEFFIELD. PHONE: 26311

London Office: Brettenham House, W.C.2. Phone: TEM 1515

SALES & SERVICE DEPOTS AT:

Sheffield 26311
Glasgow Scotstoun 8083
Briton Ferry 3166
London TEM 1515
(Monday to Friday)
Grays Thurrock 4764 & 4806
Coventry Bedworth 3011

one . . .



From the decision to demolish a building, to the finished site—cleared and ready for a new start—the work will proceed more smoothly, efficiently, economically and safely if it is entrusted to a member of the NATIONAL FEDERATION OF DEMOLITION CONTRACTORS.

two . . .



DEMOLITION

Those members whose names are given opposite are prepared to quote for work in any part of the country.

For further information apply :—

THE SECRETARY, NATIONAL FEDERATION OF DEMOLITION CONTRACTORS,
20/21 PRINCES STREET, HANOVER SQUARE, LONDON, W.1.
MAYFAIR 4768/9.

three . . .

Carlton Hotel Demolition



These are the people to contact

ALLISON SAMUEL B. LTD.,
48 Whitevale Street, Glasgow, E.I.
BRIDGETON 3881

ASHTON R. AND SONS (STOKE NEWINGTON) LTD.,
109 Stoke Newington Road, London, N.16.
CLISSOLD 0081-2

BENNETT BROS.,
Spekes Road, Wigmore, Gillingham, Kent.
RAINHAM 81375

BISHOP SYD. & SONS (DEMOLITION) LTD.,
"Acrefare," Sundridge Avenue, Bromley, Kent.
RAVENSBORNE 1400
56a Mooreland Road, Bromley, Kent.
RAVENSBORNE 6747

BLAIR ALAN,
28 Southend Avenue, Darlington, Co. Durham.
DARLINGTON 66271

BOWER WALTER,
High Street, Barlborough, Derbyshire.
CLOWNE 112

BRAMWELL H. LTD.,
1141 Aldridge Road, Perry Barr, Birmingham, 22A.
GREAT BARR 3234

BURFORD TAYLOR & CO. LTD.,
20/26 Church Street, Middlesbrough.
MIDDLESBROUGH 2632 and 2623

CHARLES BRAND (DUNDEE) LTD.,
South Road, Lochee, Dundee.
DUNDEE 68233
Glasgow—295 Edmiston Drive, Glasgow.
GOVAN 3261
Aberdeen—35 Fraser Place, Aberdeen.
ABERDEEN 21441

CHARLES BRAND OF DUNDEE,
Scone, Perthshire.
SCONE 535

CHILDS JAMES,
Corby Road, Grimesthorpe, Sheffield, 4.
SHEFFIELD 387151/3

CLOKE GEO. E. LTD.,
"Elmsted," Neasden Lane, London, N.W.10.
GLADSTONE 1163 and 4296

COLES DEMOLITION & EXCAVATION LTD.,
174 Twickenham Road, Isleworth, Middx.
ISLEWORTH 3545 and 1585

CONNELL & FINNIGAN, LTD.,
44 Molyneux Street, Chorlton-on-Medlock, Manchester, 13.
ARDWICK 2823/4/5

CONTRACTORS (MANCHESTER) LTD.,
Greg Street, Reddish, Stockport.
STOCKPORT 4286-9

CUNNINGHAM M. & SON LTD.,
30 Brighton Road, Birmingham, 12.
BIRMINGHAM SOUTH 0654

DEMOLITION & CONSTRUCTION CO. LTD.,
3 St. James's Square, London, S.W.1.
TRAFALGAR 7833
Newcastle Area Office: 38-39 Exchange Buildings, Queens Street, Newcastle on Tyne, 1.
NEWCASTLE 2-9068
Liverpool Area Office: 34 Moorfields, Liverpool, 2.
CENTRAL 8319

DISMANTLING & ENGINEERING (MIDLANDS) LTD.,
Narrow Lane, Blackheath, Birmingham.
BLACKHEATH 1621—5 lines

DYGGOR CONTRACTORS LTD.,
Station Road, Ilkeston, Derbyshire.
ILKESTON 1143/4577/8/9

FLINTHAM B. LTD.,
Head Office: 24 Neasden Lane, Willesden, N.W.10.
WILLESDEN 6972
Plant Depot: 6 Neasden Lane, Willesden, N.W.10.
WILLESDEN 1333

GOODMAN PRICE LTD.,
Lincoln Chambers, Portsmouth Street, London, W.C.2.
HOLBORN 8091-4-5

GROOM W. (TRANSPORT) LTD.,
102 Ravenhurst Street, Camp Hill, Birmingham, 12.
VICTORIA 0943 and 3123

HARDWICK F. LTD.,
Brunel Buildings, Armley Road, Leeds, 12.
LEEDS 23487

HARVEY C. P. LTD.,
Aberavon Yard, Port Talbot, Glam.
PORT TALBOT 3581 (after hours 2326)

HIGHFIELD DEMOLITION CO LTD.,
45 Friern Barnet Road, New Southgate, N.11.
ENTERPRISE 7963

HUNTER J. & SONS,
40-44 Duff Street, Edinburgh.
EDINBURGH 63078 and 64370

J. & A. DEMOLITION CO. LTD.,
Regents Corner, Wellington Road, Kensal Green, N.W.10.
WEST DRAYTON 2840
LADBROKE 3870 and 2360

JOHN HARRIS (BERMONDSEY) LTD.,
9 and 9a Tranton Road, Bermondsey, S.E.16.
BERMONDSEY 3241

KAYLEY WILLIAM LTD.,
Queen Street Iron Works, Ardwick, Manchester, 12.
ARDWICK 3281 and 3282

KING A. A. & SONS (MORTAR MILLS) LTD.,
North Circular Road, London, N.W.2.
GLADSTONE 6050

LEWISHAM DEMOLITION CONTRACTORS LTD.,
Chalk Pit Avenue Works, St. Paul's Cray, Kent.
ORPINGTON 26326-7-8

LOOMS ALBERT LTD.,
41 King Street, Derby.
DERBY 45517

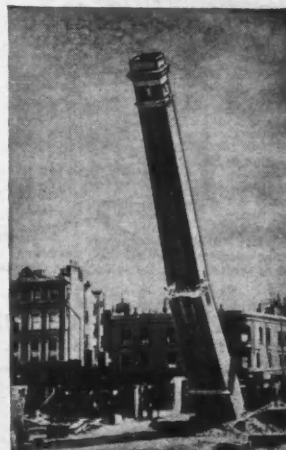
MAIDEN THOMAS & SON LTD.,
Lime Kiln Lane Works, Ardwick, Manchester, 12.
ARDWICK 2571

MEARS EBENEZER (CONTRACTORS) LTD.,
Cumberland Works, Byfleet, Surrey.
BYFLEET 3866 and 3

MOYES H. J.,
75 Crouch Hall Road, Crouch End, London, N.8.
MOUNTVIEW 3477/9

NORTH LONDON DEMOLITION & EXCAVATION CO. LTD.,
2 Windmill Road, Hampton Hill, Middx.
MOLESEY 3928

PENFOLD W. H. & SONS LTD.,
Belmont Grove, Lewisham, London, S.E.13.
LEE GREEN 2131 and 1624



PETER SCOTT (DEMOLITIONS) LTD.,
107 Spies Lane, Quinton, Birmingham, 32.
WOODGATE 2443

PINDER S. & SONS LTD.,
57a Church Street, Old Basford, Nottingham.
NOTTINGHAM 76079

POTTERIES DEMOLITION CO. LTD.,
145 Etruria Road, Hanley, Stoke-on-Trent.
STOKE-ON-TRENT 21208

REDDITT BROS.,
Highfield House, Bank End Road, Worsborough Dale, near Barnsley.
BARNSELY 2541

SCUDDER T. E. LTD.,
206-208 Western Avenue, Acton, London, W.3.
ACORN 0656/7973

SHARLAND B.
Prospect Villa, Norton Heath, Blackmore, Essex.
WRITTE 382

ST. MARY'S (CONTRACTORS), LTD.,
273 Sussex Way, Upper Holloway, London, N.19.
ARCHWAY 1161-3

SPEARS (E. W.) & CO. LTD.,
Head Office: 53 Callander Road, Catford, S.E.6.
HITHER GREEN 3978
Kent Depot: 74 Crayford Road, Crayford
BEXLEY HEATH 7678

TIDY S. M. (PUBLIC WORKS) LTD.,
161 Preston Road, Brighton, Sussex.
BRIGHTON 59261

TREMBLE A.,
Quarry Garage, Benton, Newcastle upon Tyne.
NEWCASTLE 46-5821/2

TURNER, A. W.,
Pentyla Works, Pennant Street, Ebbw Vale, Mon.
EBBW VALE 2128

WALKER M. C. & SONS (WESTHOUGHTON) LTD.,
Wigan Road, Westhoughton.
WESTHOUGHTON 3147

WATTS J. & SONS (CONTRACTORS) LTD.,
Porchester Road, Thorneywood, Nottingham.
NOTTINGHAM 55731—4 lines
HELPER 418

WEBSTER H. S.,
Phoenix Works, Tram Street, Platt Bridge, Wigan.
WIGAN 66176

WILLIAMS C. & SONS LTD.,
Victoria Wharf, 337 Lichfield Road, Birmingham, 6.
EAST 1191

WILLMENT BROS., LTD.,
462 London Road, Isleworth, Middx.
ISLEWORTH 4881

a job for a



DEMOLITION
CONTRACTOR

SECTIONAL BUILDINGS

'QUALITY WITH ECONOMY'

We can design and build to YOUR specification. Our skill and interest produces TOP results every time. Come to us for the finest in Sectional Buildings. Easy to erect. All our buildings have steel trusses. Quality-built for Long Life and attractive appearance. Everyone consults us for schools, site offices, store-rooms, canteens, hostels—the list is endless. Supplies to Local Councils.

Write for FREE Illustrated Catalogue (Dept. L1).

ROMFORD PORTABLE BUILDINGS LTD.

Roneo Corner, Romford, Essex.



FREE DELIVERY
within 200 miles
radius.
Tel. Hornchurch 43491

Telephone GRA 3401-3

ARTHUR FOSTER (EAST HAM) LTD.

STEVENAGE ROAD, EAST HAM, E.6

**FOR HIRE—ERECTION
PLANT AND TACKLE TO
LIFT UP 100 TONS**

LINER

*Slab Block and
Brick Machine*

Makes Plain Slabs, Grooved, or Tongued and Grooved Slabs, Frogged or Plain Bricks, Rock Faced and other Building Blocks. Hand Tamping unnecessary. Fast in operation. Needs only wood pallets. Write for Illustrated Brochure.

HIRE PURCHASE TERMS—

ONLY 10% DEPOSIT

The LINER CONCRETE MACHINERY Co. Ltd.

89 Park Road, Gateshead, II

Phone: 72501 (10 lines)

Grams: "Liner, Gateshead"



PUMPS

Coventry Climax, Gwynne,
Sigmund, Beresford Stork.



2½" Centrifugal 220
g.p.m. Powered by 8
h.p. petrol engines.

First class little used condition £40 each

BROADBENT BROS. (NOTTM.) LTD.

DALESIDE ROAD, NOTTINGHAM

Telephone: NOTTINGHAM 53927

BUSES AND COACHES

SUITABLE FOR CONVEYANCE OF STAFF

29 Seater Petrol Engine Coaches from **£95**

33/35 Seater Diesel Engine Coaches from **£125**

Buses for Mobile Canteens & Offices from **£35**

PLEASE LET US HAVE YOUR ENQUIRIES

KIRKBY & SONS (SALES) LTD.

CROSS ROADS GARAGE, SOUTH ANSTON,
N^R SHEFFIELD

Telephone: DINNINGTON 541 (4 lines)

SURFACING

AND
FOUNDATION CONSTRUCTION

ASPHALT SURFACING TO B.S.S.

BITUMINOUS MACADAM

TARRED MACADAM

TARSPRAYING, ETC.

MASTIC ASPHALTS

ROADS — DRIVES — CAR PARKS

WAYWARDEN

LTD.

LARKSWOOD 5451-2

*** MODERN FLEET OF CONTRACTORS' PLANT NOW
AVAILABLE FOR HIRE IN THE LONDON AREA!**

JACK BRANCH (LONDON)

OFFICE

293 BALLARDS LANE · FINCHLEY · N.12

Phone: MILLside 5068-9

Plant Manager: Mr. E. G. W. Parnell

CAMBRIDGE OFFICE:

Phone: WATERBEACH 571

ROYSTON OFFICE: Phone: ROYSTON 3007

WARRINGTON

Phone: FENKETH 2095

Ernest Doe

& SONS LTD.
INDUSTRIAL DIVISION
ULTING, MALDON,
ESSEX.

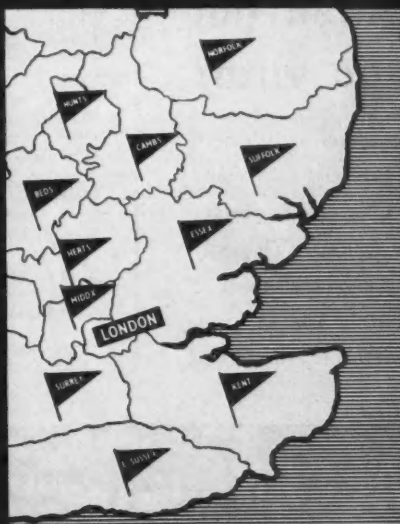
Telephone:
Hatfield Peverel 311 (night 319)

Also at

Therapia Lane, Mitcham Rd.,
Croydon.

Telephone:
Thornton Heath 4844 (day and night)

HYDRA-DIGGA/LOADALL65



*Sole Distributors in
the following counties*

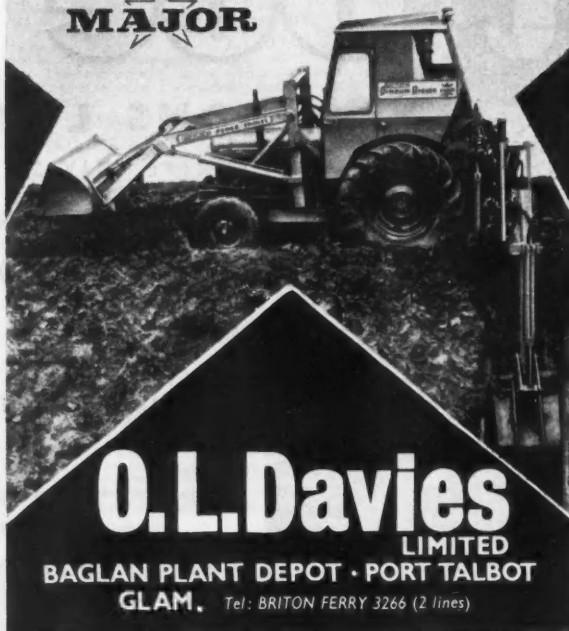
NORFOLK
SUFFOLK
HUNTINGDONSHIRE
CAMBRIDGESHIRE
BEDFORDSHIRE
HERTFORDSHIRE
ESSEX
MIDDLESEX
LONDON
SURREY
E. SUSSEX
KENT

SUPPLIERS THROUGHOUT SOUTH WALES & MON.
RADNORSHIRE & HEREFORDSHIRE FOR THE

WHITLOCK

DINKUM DIGGER

MAJOR



O.L.Davies
LIMITED

BAGLAN PLANT DEPOT · PORT TALBOT
GLAM. Tel: BRITON FERRY 3266 (2 lines)

RAYLORS

**SCAFFOLDING & CONTRACTORS'
PLANT FOR HIRE OR SALE**

Also Huge SALES STOCKS of Tools, Equipment
and Clothing for IMMEDIATE DELIVERY

**SOLE N.E. AGENTS FOR BENFORD CONCRETE
MIXERS & DIESEL DUMPERS**

Literature on Request

H. B. RAYLOR & COMPANY LIMITED
YORK

Thomas Street Works, Hull Road
Phone: 55661 (5 Lines)

STOCKTON-ON-TEES

Haverton Hill Road
Phone: 65681 (2 Lines)

There is no better medium than

THE **C**ONTRACT **J**OURNAL

for small classified advertisements

Telephone for linage rates to

WATERLOO 3411

Just a tick!

**What's Alfred Allen got
that you could do with?**

We produce everything listed — and more. What's been ticked is most likely to interest *you*. But maybe you could add a few more ticks. Or cross out some. The important thing is that whatever enquiries you send us, we'll gladly submit a quotation. Your order and instructions will be executed explicitly. Accurately. Efficiently. That's the way Alfred Allen work. That's what we've got a reputation for.

Alson Patent Clip Joint and Universal Bend	
Brick Cars	
Crane Skips	✓
Heaters, Coolers, Cyclones, Shells and Stacks	✓
Hoppers and Chutes	✓
Light Railway Equipment	✓
Platework and Fabrications	✓
Steel Butt-Welded Pipe and Specials	✓
Steel Pallets	
Steel Ventilation Ducting	
Tanks and Vessels (Lloyds approved)	✓



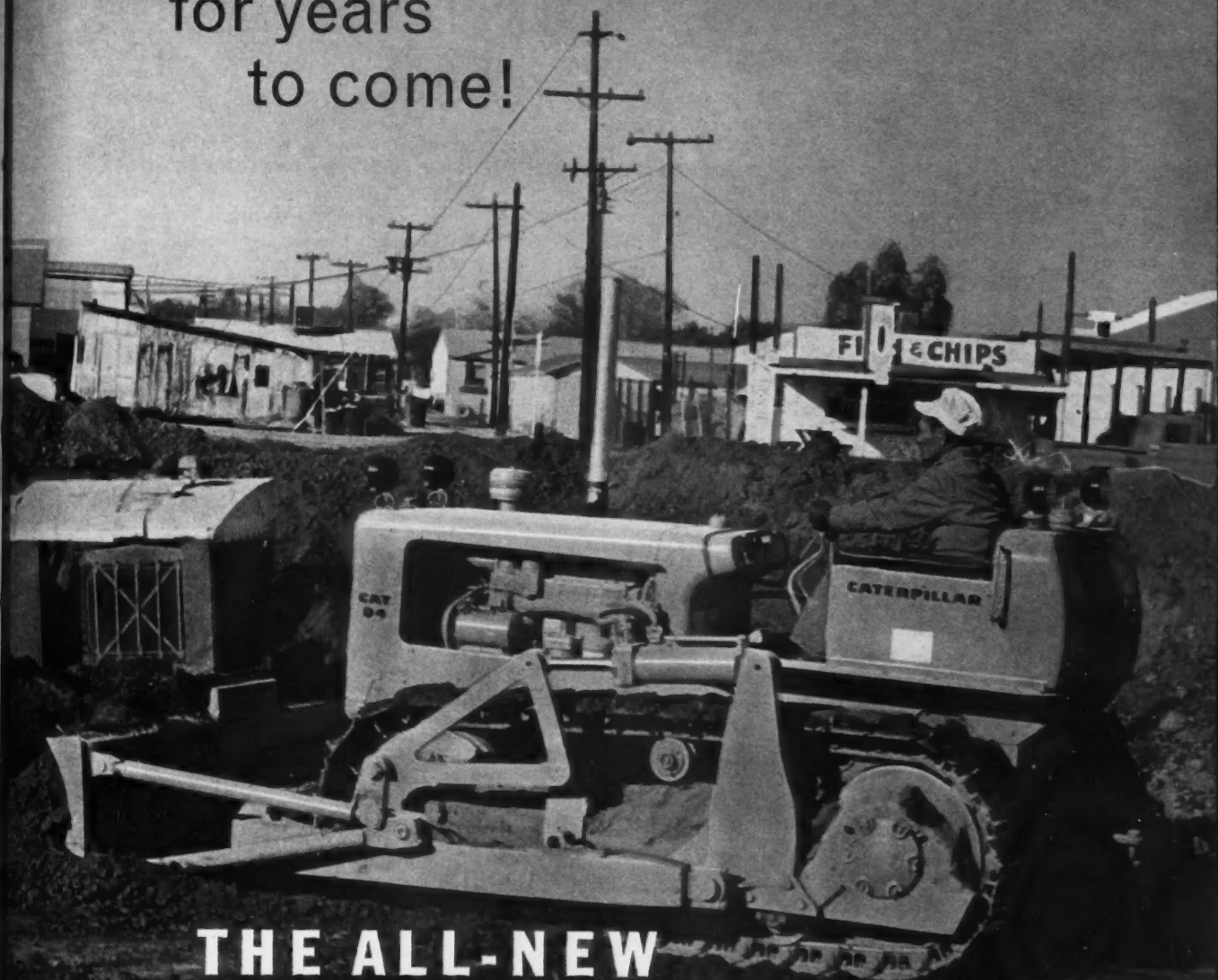
ALFRED ALLEN & SON LTD

Lower Gornal, Nr. Dudley

London Office: 23 Lawrence Lane, E.C.2 Tel: MONarch 2978

Ahead of
its time now...

ahead of its class
for years
to come!



THE ALL-NEW
CATERPILLAR

D4

TRACTOR

SEE US

NOW IN FULL PRODUCTION IN GREAT BRITAIN

It looks different . . . it is different! One glance and you will know big things have happened to the famed Caterpillar D4 Tractor, long-time performance and economy leader in its field.

Engineering advances combine with the Caterpillar tradition of superior materials and workmanship to bring completely new standards of power, performance and economy to your job.

The new D4 has more versatility than ever and you will be surprised at its simplified maintenance. Whatever the work you will find the all-new D4 increases your earning potential and profit.

ALL-NEW

CATERPILLAR

D4 TRACTOR

SERIES C

FIVE SPECIFIC WAYS
IN WHICH THE

D4

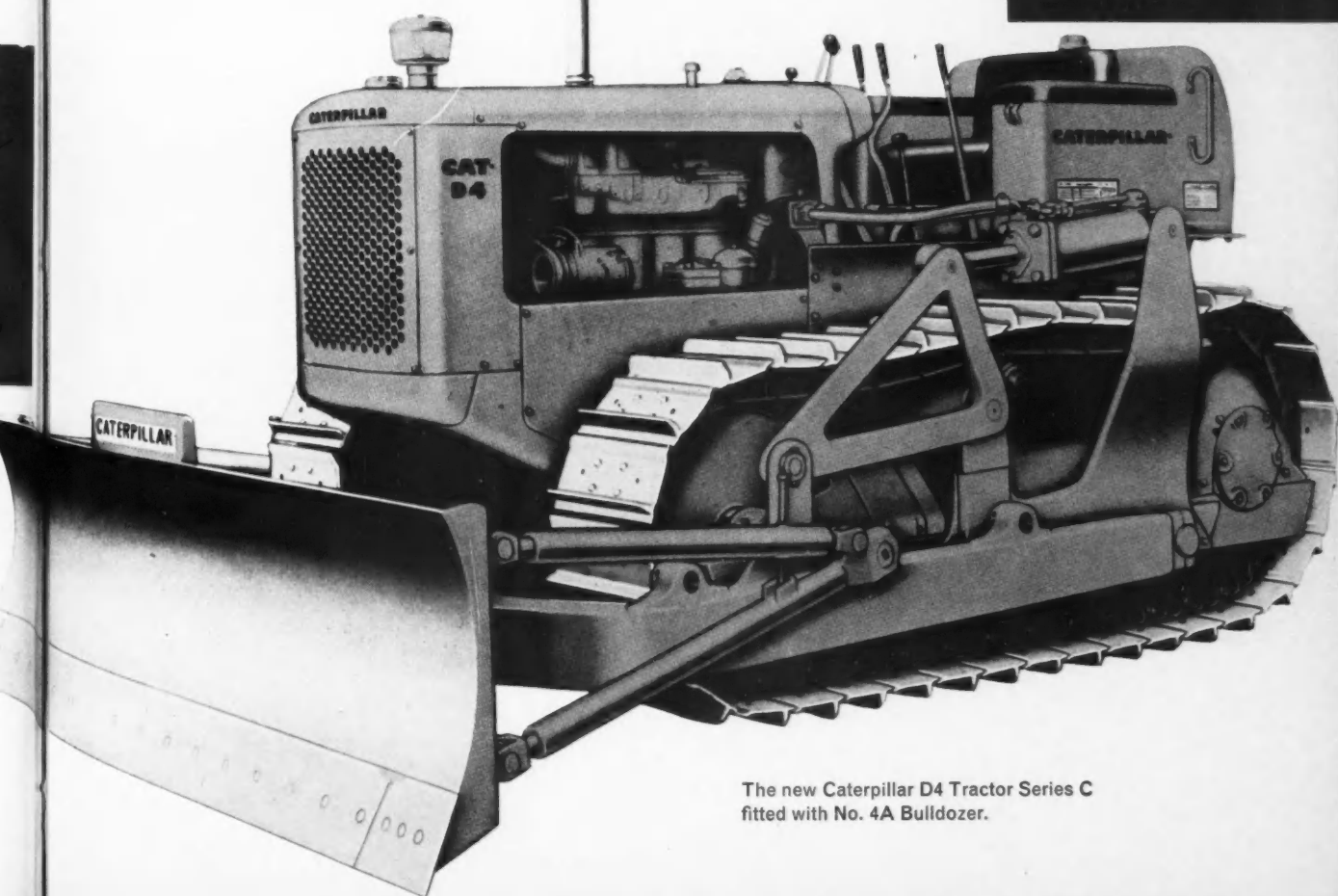
LEADS THE WAY!



A TRACTOR IS ONLY AS GOOD AS ITS ENGINE—

NEW POWER FOR THE TOUGHEST JOBS

It's rugged, compact—it's simple in design, dependable in operation, and it has a big appetite for the hardest kinds of work. And 25% more lugging ability pays big dividends when the going gets tough—assures you of plenty of reserve power to see the job through. Yet, for all of its power and ability to do the work, this engine gives you penny-pinching economy, years of trouble-free service.



and the new **D4** engine is better than ever!

4-CYLINDER ENGINE - 6-CYLINDER SMOOTHNESS

Smooth—in a word—describes the operation of the new D4 engine! Gear driven balancers counteract vertical unbalanced forces inherent in four-cylinder engines. The result is smooth, vibration-free performance through all speed ranges and extra operating comfort.

FAST, SURE STARTING EVERY TIME

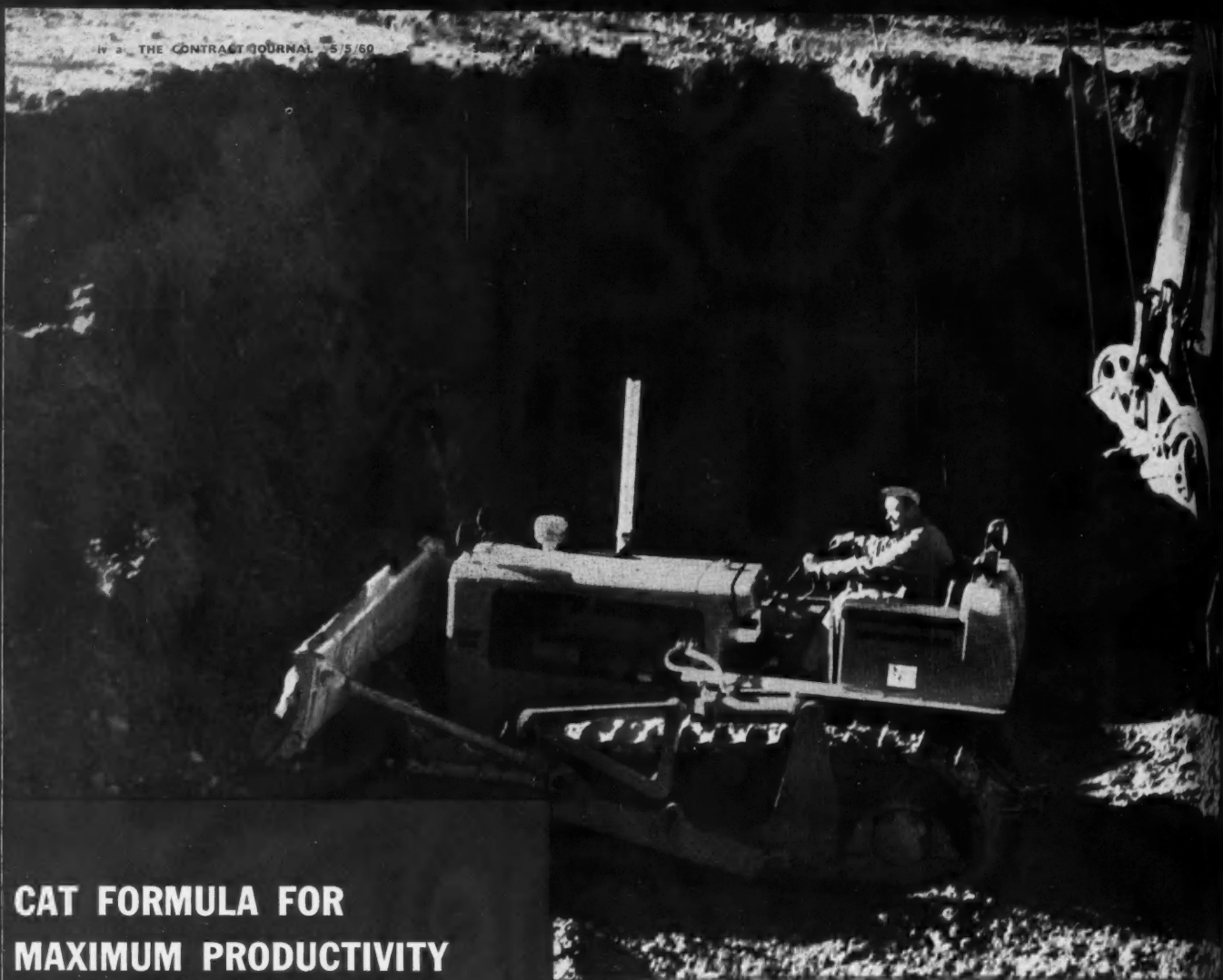
All-weather independent starting gets the new D4 working fast. Lubrication and cooling systems of the highly responsive petrol starting engine are integral with the diesel—quickly condition it for easy starting.

SIMPLE ADJUSTMENT-FREE FUEL SYSTEM

The D4's adjustment-free fuel system just can't be surpassed. Individual fuel pumps mounted in a single compact housing meter the fuel with micrometer-like accuracy for delivery to each cylinder. There's no clogging—even with long periods of idling.

CLEANEST AIR AN ENGINE EVER BREATHED!

The new D4 quickly-serviced dry-type air cleaner keeps out at least 99.8% of dirt, 100% of the time, no matter how severe the operating conditions.



CAT FORMULA FOR MAXIMUM PRODUCTIVITY

- The seat is placed high to give control tower visibility—tractor-mounted tools are always in full view for faster, more accurate work.
- Spring-assisted steering clutch levers—handy, effortless, easy-to-use.
- New, low hood line and low silhouette of the forward mounted air cleaner aid vision to the front.
- Convenient forward-reverse lever saves effort, reduces cycle time.
- Modern console styled instrument panel with easy-to-read gauges.
- Wide well-padded comfortable seat cushions "cradle" operator . . . provide better back and leg support, reduce fatigue.
- Fuel tank capacity increased by 40% to 42 gallons—for long work periods before refuelling.
- Clean, open platform design allows safe, easy access—no stumbling over controls.
- Seat is moved well forward of sprocket centre line for improved riding qualities.
- Thickly cushioned arm rests provide additional comfort and convenient recessed location for batteries.
- Rear face of fuel tank is curved to improve back vision to drawbar—makes for easier, safer connecting up to towed implements and tools.

NO WONDER THEY'RE
CALLING THE

ALL-NEW D4

"THE OPERATOR'S TRACTOR"!

Never before has the operator's compartment on any tractor offered such advantages in terms of comfort and convenience—and greater efficiency, greater profit for you! See these eleven ways in which the new Caterpillar D4 Tractor *leads the way!*

CATERPILLAR

Caterpillar and Cat are Registered Trademarks of Caterpillar Tractor Co.

**The Power for
Greater Production**

TRACTORS
EARTHMOVING EQUIPMENT
ENGINES
PARTS

CATERPILLAR TRACTOR CO. LTD.
Registered User of Trademarks Caterpillar and Cat

GLASGOW • LEICESTER • NEWCASTLE • LONDON

CONTRACTORS' PLANT

for

HIRE or SALE
from the Largest
PLANT HIRE FLEET
in the country

GEORGE COHEN

SONS AND COMPANY LIMITED

WOOD LANE, LONDON, W.12 Tel: SHEPHERDS BUS 2070

STANNINGLEY, nr. LEEDS Tel: PUDSEY 2241

SOLE AGENTS FOR

600 PINGON
TOWER CRANES

BRITAIN'S LARGEST STOCKISTS

OF CONTRACTORS' TOOLS
AND PROTECTIVE CLOTHING



Kingsbury, Nr. Tamworth. Tel: Hurley 281/2 and Ashfield 1191/2/3. Manchester Tel: Pendleton 4411/8
Newcastle Tel: Newcastle 23313. Sheffield Tel: Sheffield 42033. Glasgow Tel: Langside 6131
Swansea Tel: Swansea 71741. Belfast Tel: Belfast 58211/2. Bath Tel: Bath 5353. Southampton Tel: Southampton 26116/9

THE GREENHAM GROUP

SELECTED ITEMS FROM STOCK:—

CONCRETE MIXERS

5/3½ Blaw Knox, Winget, or Stothert and Pitt, various petrol engines, on pneumatic or iron wheels, all excellent condition. each £85

7/5 Benford, Tilting Drum, Hopperfed. Petter Diesel, overhauled. £195

10/7 Stothert and Pitt, Petter Diesel, good working order. £95

10/7 Stothert and Pitt, Lister Diesel, very good condition. £175

10/7 Rex, Rotary Drum, Hopperfed, water tank, Ruston 1VTH Diesel. Excellent condition. £195

14/10 Rex, Rotary Drum, Hopperfed, water tank, Ruston 1VSH Diesel. First-class condition. £275

Choice of several. each £300

14/10 Rex, as above but High Discharge. Choice of three. each £450

14/10 Rex, electric motor, 400/440/3/50. Complete with integral weighgear. Very good. £295

21/14 Stothert and Pitt, Lister Diesel. Low discharge. Excellent cond. Choice of two. each £45

Ransomes Roller Pan Mixer, Electric, four steel wheels, working order. £165

CONCRETE PLANT

14 cu. ft. Road Machines Double-bucket Swing Weighbatcher, overhauled and repainted. Choice of four. £275

10-ton Portasilos, good condition, repainted. £375

30-ton Portasilos, rectangular discharge hopper, good condition, repainted. £20

Allam Poker vibrators electric, c/w flexible drive and Poker head. Very good condition. £125

Vibrosoil Compactors, J.A.P. Petrol, very good order. each

MONO-RAIL EQUIPMENT

We have a large selection of Mono-Rail equipment in excellent condition. Power and trailer wagons, straight and curved rails, stands. Supplied in complete sets or as required.

DUMPERS

15cwt. Benford, Petter Diesel, excellent condition. £175

15cwt. Liner Roughrider, Petter Diesel, excellent condition. £175

TOWER CRANE

Buildmaster 150 Tower Crane. New 1953. Electric motors 415/3/50, fully slewing, arranged for 9ft. gauge track. Very good condition. £1,375

HOISTS

7cwt. Wickham Mobile, J.A.P. Petrol, complete with masts. £125

7/10cwt. Wickham Static, Petter or Ruston Diesel, complete with masts, first-class order. £125

10cwt. Wickham Static, Ruston Diesel, complete with masts. Choice of three machines. Excellent condition. £145

15/20cwt. B.H.C. Centre Slung, Petter Diesel, overhauled, complete with Hopper. £295

One 1958 A.C.E. 20cwt. Passenger Hoist "Sky-master." Serial No. 15258/23644. Includes eight 18ft. Mast sections and six electrically controlled gates. Fitted 15-man cage. £2,250

TRACTORS, SCRAPERS AND SHOVELS

D.8 Caterpillar 2U Series, complete with Birtley Hydraulic Bulldozer and Caterpillar C.C.U. Very good condition. £1,975

Ruston S.90 Scraper, Machine and Tyres in good condition. Lying South Wales. £425

Weatherill ¾ cu. yd. Loading Shovel No. 2H 522, 1955. Reconditioned Fordson Diesel Engine, Fuel Pump and Injectors, new king pins and bushes, new brake shoes, new shaft and races in clutch, new drag link, main boom re-pinned and re-bushed. First-class condition, will be painted to customer's colours. £725

GREENHAM EQUIPMENTS LTD.

CLAYTON ROAD, RUISLIP ROAD, GREENFORD, MIDDLESEX

Let's ring VIKING 3651



**Toughest boot of all—
made for rough treatment**



DUNLOP BULLDOZER BOOT—really heavy-duty seamless rubber boot for building work, with Resifort sole. Light and flexible. Available with hob nails and digging plates if required. Also at home on the building site: Workmaster, sizes 6-11, 45/9d; Target, sizes 6-12, 33/6d; Lumber, sizes 6-12, 32/-.

You get MORE LIFE out of
DUNLOP
FOOTWEAR

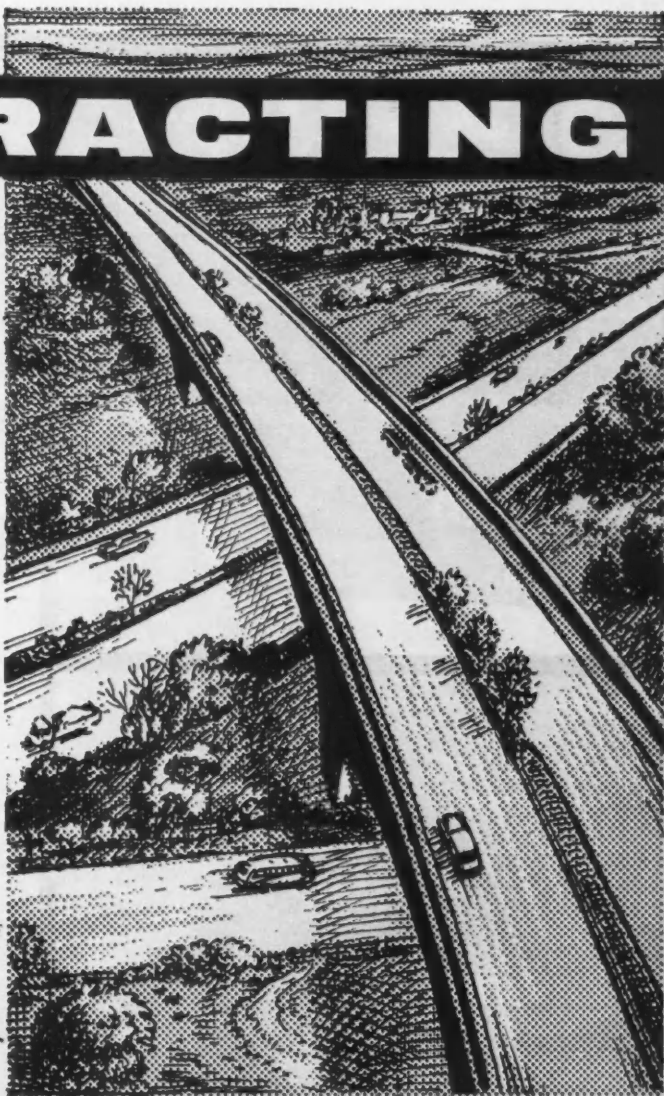
DUNLOP FOOTWEAR LTD., WALTON, LIVERPOOL 9



CONTRACTING

**MAJOR
TRUNK ROAD
DEVELOPMENT**

**CIVIL
ENGINEERING
AND
BUILDING
CONTRACTS**



Consult

**MARTIN
COWLEY
LIMITED**

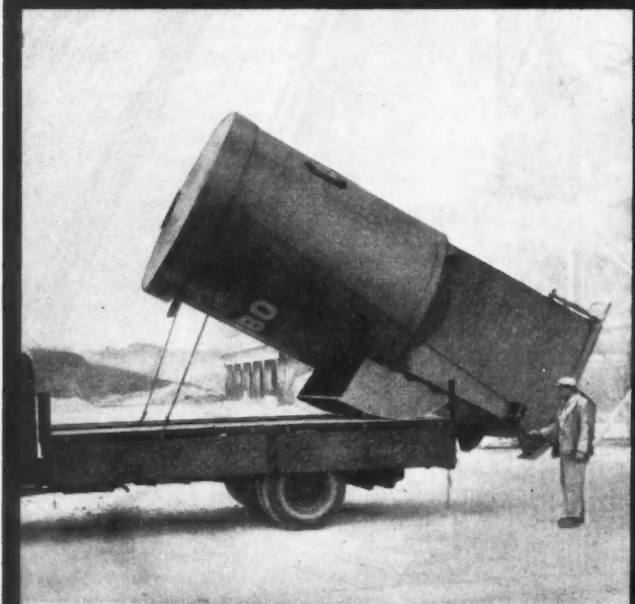
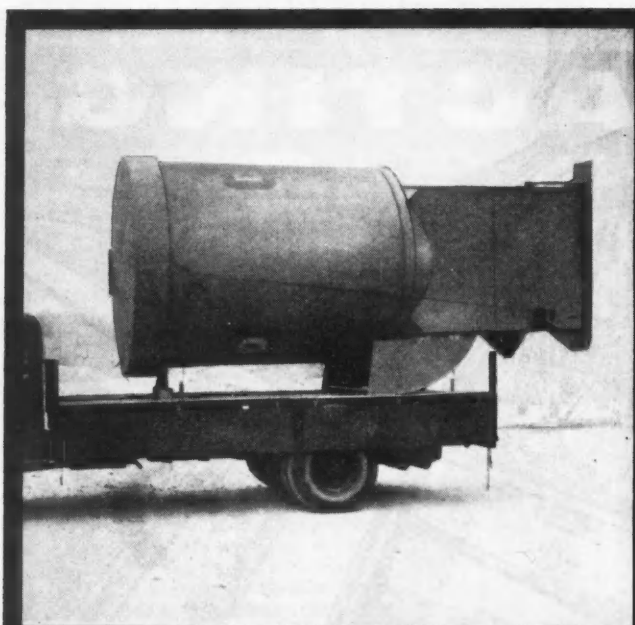
Building and Civil Engineering Contractors

**CLAY CROSS
DERBYSHIRE**
Telephone 2501 (10 lines)

London Office:

112 JERMYN ST, LONDON, S.W.1

Telephone: WHITEHALL 3282 (3 lines)



DUMBO

SELF-ERECTING HOPPER

for cement and other dry powders in bulk— offers all the advantages

SPECIAL FEATURES

Can be loaded or off-loaded by one man in a matter of minutes
Automatic Weighing
Simple Operation · Simple Maintenance
Robust all Steel Construction · Long Life
No condensation problems
Minimum risk of damage when loading and off-loading
Patented filter means minimum maintenance
Access ladder and windshields are included in the price
With additional Dispenser can feed two Mixers
10-20-30 tons (Cement) capacities

Abelson & Company (Engineers) Ltd.

Coventry Road, Sheldon, Birmingham, 26
Telephone: SHEldon 2424 (10 lines)
MANCHESTER— Telephone: ARDwick 1328
LONDON—Telephone: MACaulay 3407

Amalgamated Limestone Corporation Ltd.

"Bulk Handling Department", 15 Stanhope Gate,
London, W.1 Telephone: GROsvenor 3611 (10 lines)

SCOTLAND

J. & W Henderson Ltd., Upper Quay, ABERDEEN
Telephone: CENTRAL 29313
Johnstons & Paton Ltd., 8 Newton Place,
GLASGOW, C.3. Telephone: DOUGLAS 8114

NORTHERN IRELAND

McNeill (Engineering) Ltd., 78 Duncrue Street,
BELFAST, 3. Telephone: BELFAST 745211/6

EIRE

McNeill (Ireland) Ltd., Collinstown Cross,
Cloghran, Co. Dublin.
Telephone: DUBLIN 371601/2

Patent Numbers
764310 and 764311

Photograph by kind permission
of Messrs. Wates Ltd.

DUMBO
RECD.

WATES

ALC
BEST FOR BULK

CONTRACT GUARANTEE BONDS—

Ask the AVON

FIRST PAYMENT HELD UP?

Even when work has been allowed to start the first payment may be withheld until a bond be produced. That need never happen. For the really rapid service by bonds specialists that avoids these hitches — Ask the Avon.

AVON INSURANCE CO. LTD. The Contract Guarantee Specialists

Head Office: Stratford-on-Avon. Phone: 4211 (10 lines)
Branches in all parts of the country.

LINER NO.2 PORTASAW

IMMEDIATE DELIVERY
FOR

£156

OR ON
HIRE PURCHASE TERMS
.. ONLY 10% DEPOSIT



- RIPS
- CROSS CUTS
- BEVELS

Easy Portability makes the No. 2 Portasaw indispensable on the building site. Powered by a petrol engine or electric motor. Economical in use, cuts costs by as much as 80% compared with hand-sawing.

Other models available ... send for illustrated leaflet.
THE LINER CONCRETE MACHINERY CO. LTD.,
273, PARK ROAD, GATESHEAD, 8.

Telephone: 72501.

Telegrams: "Liner, Gateshead."

London Office & Showrooms: Liner House, Lexden Road, Acton, W.3. Tel: ACOrn 8931

Please forward particulars of LINER PORTASAWS.

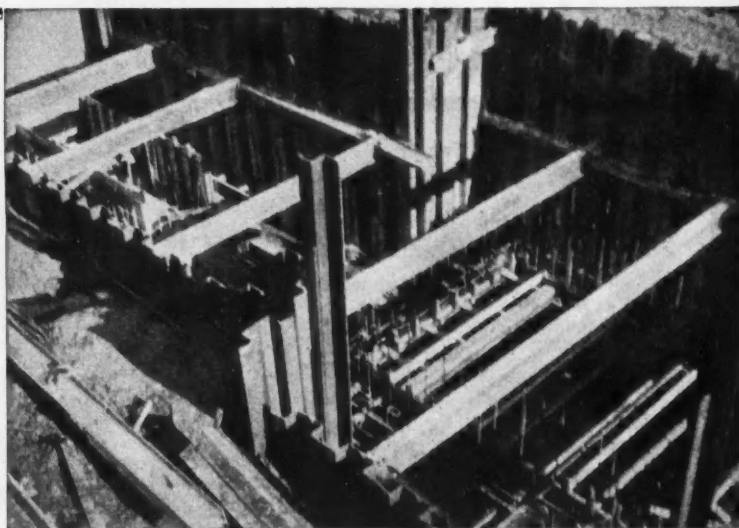
NAME

ADDRESS

273

SUBLET YOUR STEEL SHEET PILING

TO



W. A. DAWSON LTD.

SPECIALIST EQUIPMENT FOR
ALL SIZES ON CONTRACT

SUNDON PARK, LUTON

LUTON 52203



'BRISTOL' VERSATILITY



**one machine - many site tasks!*

**BRISTOL D44R
DIGLOADER Mk. II**

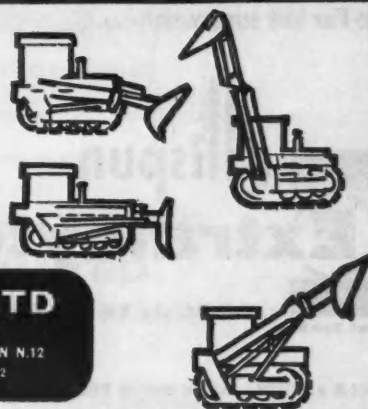
DISTRIBUTED BY

H. A. SAUNDERS LTD

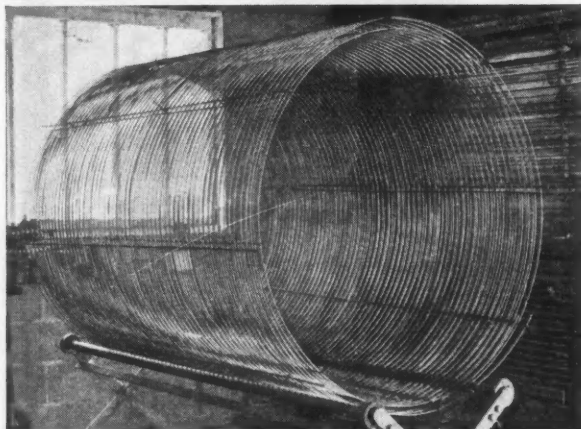
INDUSTRIAL TRACTOR DIVISION

836-842 HIGH ROAD, NORTH FINCHLEY, LONDON N.12

Tel. HILLside 5272 (8 lines) Grams: Dutrax, London N.12



HERE'S WHY
Extramyte PIPES
 ARE TEN TIMES
 AS STRONG!



Double spiral reinforced steel and extra thick walls make Extramyte the strongest concrete sewer pipes ever built. In fact, they have been tested up to ten times British Standard loadings without failure.

Because of their great strength, Extramyte pipes do not require any site concrete. This means they can be laid more efficiently, more quickly with the minimum of supervision from the Resident Engineer or Clerk of Works, which results in considerable saving in time and labour. You are strongly advised to use the Ellis-Cornelius Flexible joints with these pipes

- * Tested to 10 times British Standard loadings
- * No site concrete needed
- * Far less supervision

Ellispun
Extramyte

Regd. Trade Mark

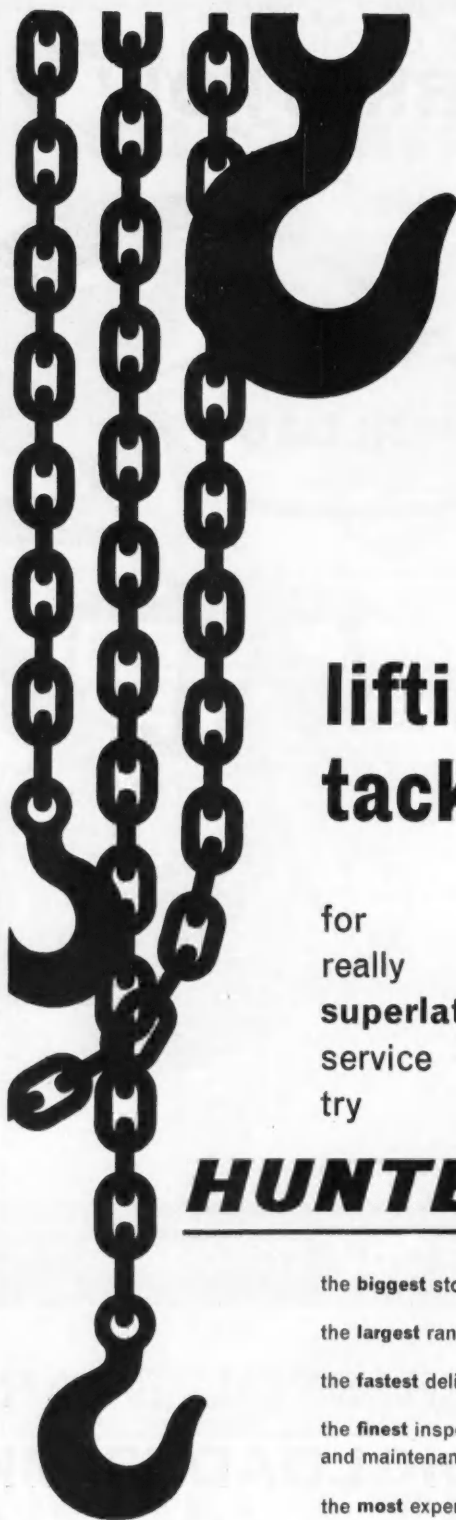
CONCRETE SEWER PIPES

SOLE AGENTS: JAMES SMITH BROTHERS

24, Half Moon Lane, London, S.E.24 Phone: Brixton 3000 and 3003

MADE BY JOHN ELLIS & SONS LTD.

21, New Walk, Leicester Phone: Leicester 56682 (7 lines)



**lifting
tackle**

for
really
superlative
service
try

HUNTER

the biggest stock

the largest range

the fastest delivery

the finest inspection
and maintenance service

the most experience in
design and installation

And this isn't just 'what we say in advertisements', try ringing
Grays Thurrock 5155* with your problem and you'll find out.
* or write or call at our new works at

Gumley Road, Grays, Essex
G. Hunter (London) Ltd

TA 3537

a
chance
to

EXPAND



Expanding your business? The opportunities certainly exist but those additional contracts may mean more modern equipment, and capital expenditure. This is where Mercantile Credit can be of real assistance. Take advantage of their hire purchase finance and reduce your own capital outlay to a minimum.

Speed, efficiency and a personal approach to your particular requirements are the essence of Mercantile Credit hire purchase. *For details please write or 'phone the nearest branch office.*

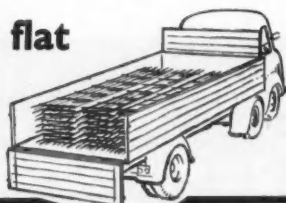


MERCANTILE CREDIT COMPANY LIMITED

Argyll House, 246-250, Regent Street, London, W.1. Telephone: REgent 7222
Member of the Finance Houses Association.

There are Mercantile Credit branches throughout the United Kingdom.
Please consult your local telephone directory for your nearest branch.

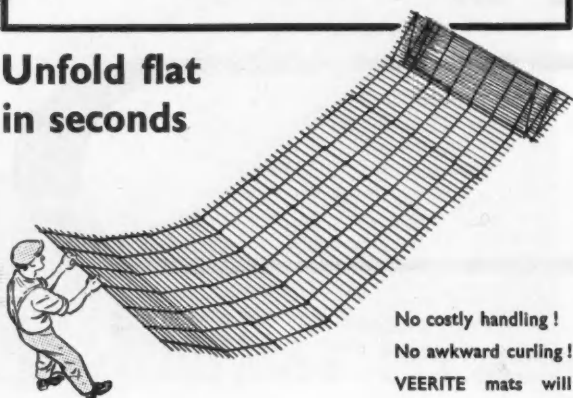
Compact and flat
to transport



'VEERITE' HINGED AND FOLDED Reinforcing Mats

PROVISIONAL PATENT 34826/58

Unfold flat
in seconds



V. WRIGHT (LEEDS) LTD.

STILLHOUSE WIREWORKS,
WATERLOO ROAD, LEEDS, 10

Telephone : 76018/9

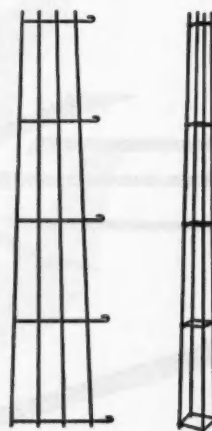
No costly handling !
No awkward curling !
VEERITE mats will
speed up your jobs
and save you money.
All sizes. Send us your
enquiry.

WRIGHT

RIGID WELDED MATS

Patent No. 15375/54

Increase concrete post
strength by 20%.
Supplied flat in any
length or section for easy
transport and storage.
Take only 20 SECONDS
to bend to shape. Used by
leading manufacturers.



"SNAPON" (REGD.)

Split Concrete Snap-on Bar
Spacers. Regd. Design. Pat-
ent applied for. Immediate
delivery.



Used by the leading concrete
manufacturers throughout the country.

Send for full particulars and samples.

V. WRIGHT (LEEDS) LTD.,

STILLHOUSE WIREWORKS,
WATERLOO ROAD, LEEDS, 10
Telephone 76018/9

Consistently the best !



You have our modern, scientifically controlled Direct Oil-Fired Tunnel Kiln to thank for the complete uniformity and competitive prices of WINDMILL Tiles. Consistent in strength, colour and size—they are the result of advanced and highly effective production methods and conform to British Standard 1286 : 1945 Type A.

SPECIFY rich, dark red or brown fleck WINDMILL Quarry Tiles for your next flooring contract. Available in standard sizes and suitable for flooring Hospitals, Schools, Kitchens, Sculleries, Canteens, Dairies, etc. WINDMILL dust pressed floor tiles and fittings are also available.

A NEW "WINDMILL" PRODUCT

We have pleasure in announcing that we can now offer
CERAMIC CILLS in both Red and Brown Fleck, in
6" x 7½" x ½", 6" x 8" x ½" — 6" x 9" x ½"



All the more reason for specifying

WINDMILL QUARRY TILES

Have you seen our new
"Brown Fleck" Quarry Tiles?

SEND NOW FOR SAMPLES AND BROCHURE

Send your enquiries or ask for our representative to call
**THE ALLIED BRICK AND
TILE WORKS LTD.**

6-7 QUEEN STREET, LONDON, E.C.4
Tele: CITY 2725

Works at: NAPTON-ON-THE-HILL, HARROGATE AND
RAMSDALL



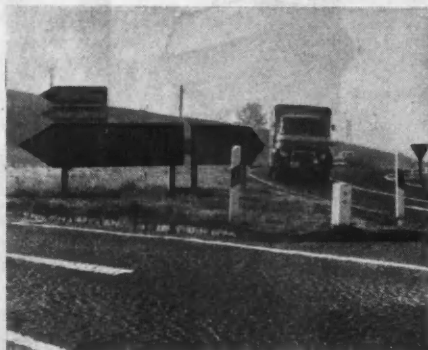
SWITZERLAND GETS THE BIRDS

How a 7 ton Austin takes
9 ton of frozen chickens from
Rotterdam to Zurich

The Austin 7-tonner crosses from Holland into Germany. Dutch customs officials stand ready to check papers. Throughout the long transit through Germany, the Austin's doors are sealed and are unsealed again only at the Swiss frontier.



Crossing the bridge over the Waal at Nijmegen—early in the journey. This Austin 7-tonner has only recently been brought into service by Bischofberger A.G. of Zurich.



Rejoining the main Rhineland Autobahn after a night's rest at Montabaur. Fritz Zurbrugg has the highest praise for the Austin's cornering which compares very favourably with other vehicles, in his opinion.



Coffee break over—and it's back to the Autobahn at night. Like the new British motorways, this highway enables high average speeds to be maintained.



The journey completed, the Austin 7-tonner is easily manoeuvred into place for unloading. Beside her the two other Austins of Bischofberger A.G.—Austin 7-tonner and a 5-tonner.

AN AUSTIN 7-TONNER with trailer crosses Europe from Rotterdam to Zurich with a cargo of frozen chickens . . . just one of many Austins in use on continental routes today. Her owners are Bischofberger A.G. of Zurich, a firm that specializes in the international food trade . . . a trade that calls for rapid and reliable transport because the goods are perishable. Bischofberger have 3 lorries in operation at the moment—all of them Austins. One of these vehicles recently covered 150,000 miles in a single year.

Continental operation on long-distance high-speed routes is a severe test of a vehicle. Here's what driver Fritz Zurbrugg

—on the road for 24 years—had to say about his Austin. "I can handle this 7-tonner like a far smaller vehicle. It corners beautifully and it's a pleasure to drive. And its engine is wonderful."

The all-purpose Austin commercial range includes vans and trucks from $\frac{1}{2}$ -7 tons, plus tippers and prime movers for 15 ton weights. All with 12 months' warranty and backing of B.M.C. Service.

AUSTIN

THE AUSTIN MOTOR COMPANY LIMITED
LONGBRIDGE · BIRMINGHAM

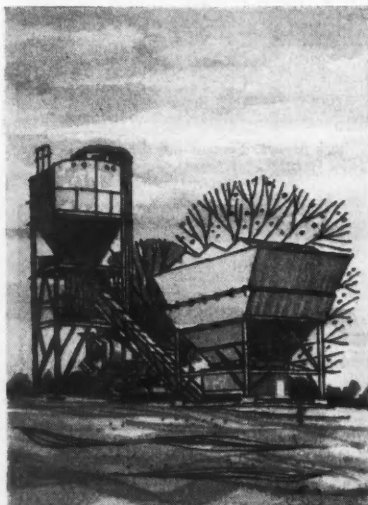


3 BASIC TYPES MULTIPLY INTO BRITAIN'S BIGGEST RANGE

Road Machines offer you a choice of three basic units which can be easily adapted to give you the right Plant for *your* job. Each of the three types is ROADMAC-engineered on the unit construction principle—that means they are fabricated by Road Machines in units which are easily transported and quickly erected, lowering costs whilst increasing efficiency to a new all-time high.

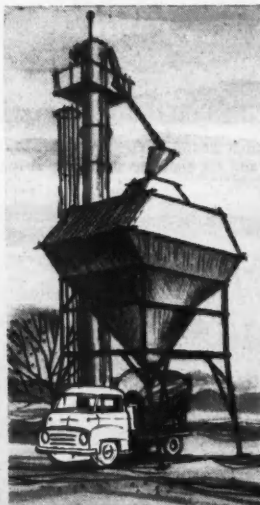
Road Machines are Masters of modern methods on accurate batching.

That's
the Roadmac
'Efficiency Plan'
for R.M.C. Plant



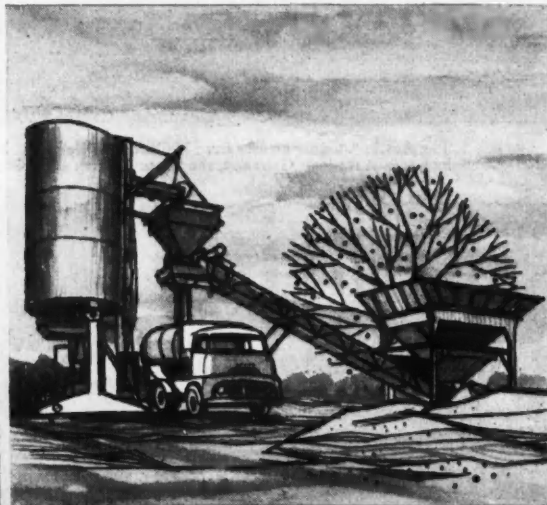
Low-Level Feed Plant

A 90 cu. yd. hopper with an 80-ton silo designed to supply accurately proportioned materials to charge either truck-mixers or agitators in one complete batch. This plant is designed to be fed at ground level by a loading shovel.



Gravity Plant

A low price plant, comprising a 42 cu. yd. hopper with an integral 30-ton silo, supplying accurately proportioned materials to charge either truck-mixer or agitator in one complete batch. This plant is fed by either bucket elevator or belt conveyor.



Low-Level Overall Plant (Mobile/Static)

This plant, designed to meet the demand for equipment having overall low-level dimensions, is ideally suitable for use where heights are restricted. It can be supplied either mobile or static.

ROAD MACHINES BATCHING PLANT—THE HEART OF QUALITY CONCRETE PRODUCTION



ROAD MACHINES (DRAYTON) LTD

West Drayton, Middlesex. Telephone: West Drayton 3721 Telegrams: ROADMACH, West Drayton.



... slash overhead costs with

mono-rail "LINE AUTOMATION"

wherever materials must be moved



MONO-RAIL needs no driver

The Mono-Rail travels unattended at a constant speed of 100 yards per minute unaffected by load or gradient. Stops automatically whenever required.



MONO-RAIL crosses ditches, streams

Because the Mono-Rail rides on stands it operates clear of mud and water, and is able to negotiate streams, ditches, marshes, etc., with ease and simplicity—other forms of transport take the long way round.



MONO-RAIL cuts costs on small sites, too

The agility of Mono-Rail 'line automation' brings economy to the small building jobs, too. The concreting of house footings, oversites, etc., is substantially speeded up, increasing output targets at minimum costs.



MONO-RAIL is so easy to install

It takes only two men half-an-hour to lay a track 100 yds long under average ground conditions. No fish plates, bolts or nuts to fit. Power wagon and trailer transport 24 cu ft of wet concrete.



MONO-RAIL reaches where wheeled vehicles cannot

Mono-Rail 'line automation' reaches where wheeled vehicles cannot—through tunnels, along the side of railway tracks, on building sites, etc.

ROAD MACHINES (DRAYTON) LTD.

West Drayton, Middlesex.

Telephone: West Drayton 3721.



To: Road Machines (Drayton) Limited
Horton Parade, West Drayton, Middlesex.
Please let me know how Mono-Rail 'Line Automation' will
give me highest ever economy and output targets.

NAME

ADDRESS

STRENGTH IN DESIGN

PLUS SPEED IN PERFORMANCE

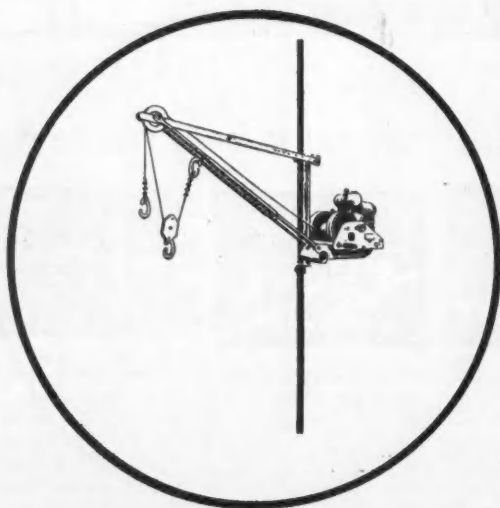
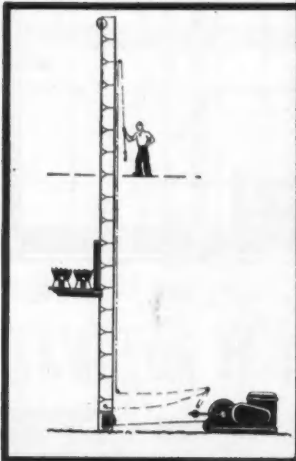
ANT QUEEN MOBILE HOIST

PETROL — ELECTRIC — DIESEL
CAPACITY 7-10 CWT.
write for Brochure B1



MOONRAKER MK II & MK III TOWER HOIST

ELECTRIC — DIESEL
CAPACITIES 15-50 CWT. 100/230 FT. MIN.
write for Brochure D1



SAGA JUNIOR SCAFFOLD JIB CRANE

PETROL — ELECTRIC — DIESEL
CAPACITIES UP TO 5 CWT.
write for Brochure A1

FOR OUR FULL RANGE OF BUILDING HOISTS AND CONCRETE ELEVATORS. write 101

BRITISH HOIST & CRANE COMPANY LTD. COMPTON (NEWBURY) BERKSHIRE

Telephone: COMPTON 234 (5 LINES)

Telegrams: BRITHOIST, COMPTON, BERKSHIRE

LONDON SPARES & SERVICE DEPOT: STEVENAGE WHARF, STEVENAGE ROAD, FULHAM, S.W.6

Tel: FULHAM 3207



MOVE MORE with phone MICHIGAN MARSH PLANT

EMSWORTH 2032-2634



MICHIGAN 55A

- FOUR WHEEL DRIVE
- 1 CUBIC YARD HEAVY DUTY BUCKET
- 7,000 lb. LIFTING CAPACITY
- 27 m.p.h. TRAVEL SPEED

Versatile "Michigan" highly mobile tractor shovels for beach cleaning and clearing—for a speedy job plus high capacity—for hire anywhere in Southern England—Phone Marsh Plant Hire Now—for immediate service.

MARSH PLANT & MACHINERY CO. LTD.
SOUTH STREET, EMSWORTH, HANTS.

COMPRESSORS

FOR HIRE

- *Mobile*
- *Portable*
- *Stationary*
- *Diesel and Electric*
- *18 to 630 cu. ft. f.a.d.*

also

POWER RAMMERS

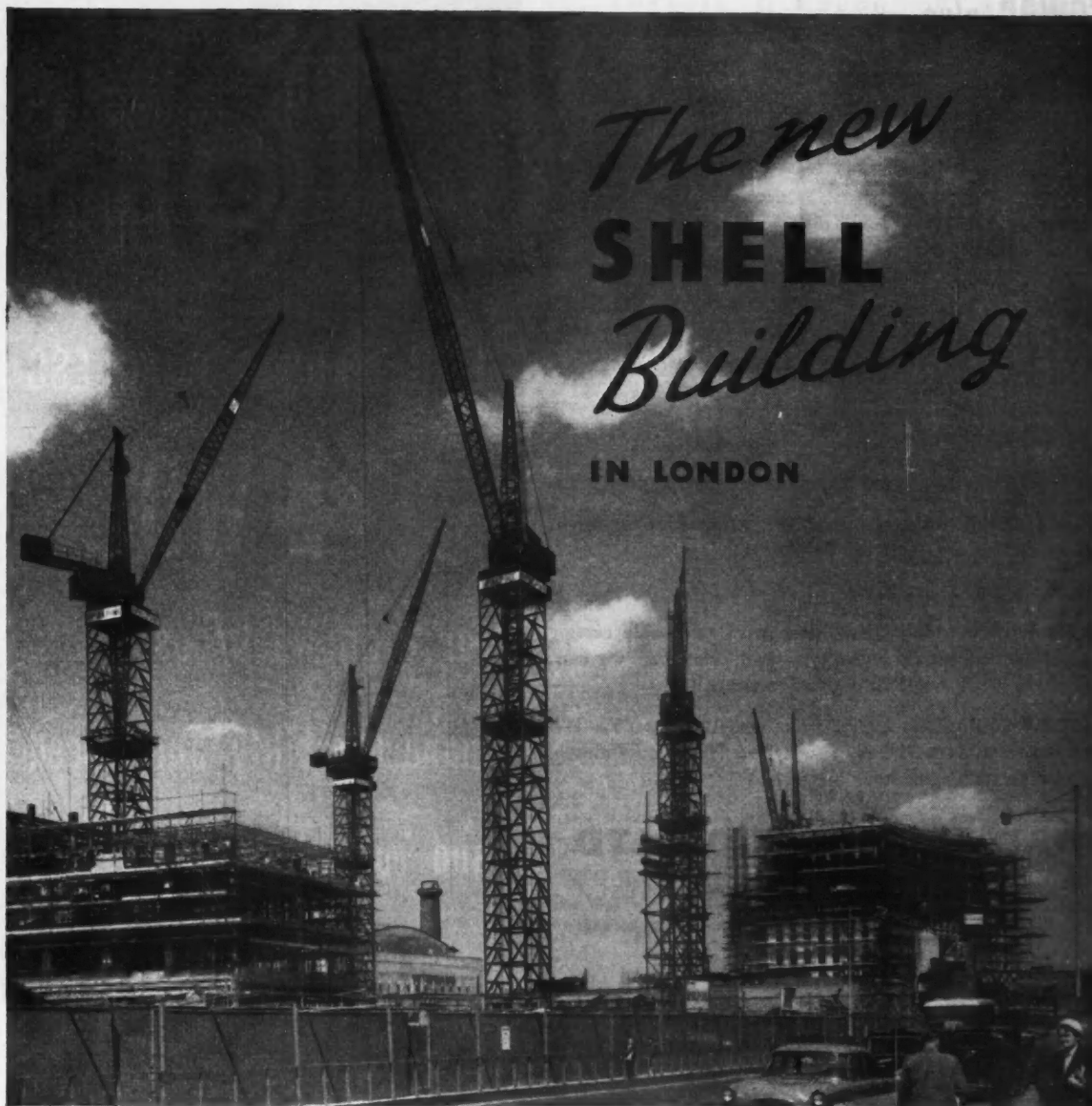


CONTACT US FOR SERVICE

CONTRACTORS SERVICES LTD

65 EFFRA ROAD, LONDON S.W.2

TELEPHONE BRIXTON 4081



The new
SHELL
Building
IN LONDON

WITH

Butters
Monotowers

These tower cranes give the highest lift and the greatest radius of any building crane, and do it with complete safety in any conditions. Butters' great reputation for top quality cranes guarantees it. These are 5 ton models owned by Messrs. Sir Robert McAlpine & Sons Ltd., engaged in the erection of the new Shell administration building.

BUTTERS BROS. & CO. LTD. Maclellan Street, Glasgow, S.1

LONDON: THE CRANE WORKS, LONG LANE, HILLINGDON, MDDX. AND AT BIRMINGHAM AND NEWCASTLE

We invite you to visit us at the MECHANICAL HANDLING EXHIBITION, STAND No. J8A—GROUND FLOOR.

Power *plus*
Mobility *plus*
Extreme
Manoeuvrability!

These are features that make the **ROADLESS 4 W.D. ANGLEDZER** a most valuable machine for Builders, Civil Engineers, Earth Moving Contractors etc. Faster on the job . . . faster between jobs (*the drive to the front wheels can be disengaged and the machine driven on the public highway, saving the cost of a transporter*).

Brief Specification:

POWER UNIT: Fordson Power Major engine developing 51.8 b.h.p.

OVERALL DIMENSIONS: Length 14ft., width 7ft. 6in., height without cab 5ft. 6in., with cab 7ft. 9in.

WEIGHT: 4 tons 14cwt. 7lb.

BLADE: 7ft. 6in. wide x 28ins. deep with renewable cutting edge. Maximum lift 2ft. above tyre level. Maximum dig 6ins. below tyre level. Angle 25 degrees to either side.

STANDARD EQUIPMENT: Lights, front wheel weights, 9 x 24-4 ply front tyres, 11 x 36-6 ply rear tyres. Heavy duty clutch. Hand brake and engine hour meter.

ROADLESS TRACTION LTD

HOUNSLOW, MIDDLESEX

Telephone: HOUnslow 6421



No other wheeled
 tractor can match
 the **MANUEL-ROADLESS**

4WD

for high work/cost ratio
 manoeuvrability and speed
 and rugged power

★ **Marketed by:** Bray Construction Equipment Ltd. of Faggs Road, Feltham, Middlesex. (Tel: 3471) who will be happy to demonstrate the capabilities and versatility of the **ROADLESS 4 W.D. ANGLEDZER** on your own site, without obligation.

CONTRACTS

FLINTSHIRE COUNTY COUNCIL.

RECONSTRUCTION OF HIGH STREET, CONNAH'S QUAY.

TENDERS are invited for the RECONSTRUCTION and WIDENING of the CARRIAGEWAY and FOOTPATHS in Two Sections of High Street, Conna's Quay. The work comprises generally some Demolition of Old Property, Excavations, Surface Water Drainage, the Construction of a Reinforced Concrete Carriageway, Footpath Construction, and new Brick Boundary Walling, etc.

Copies of the Specification, Bill of Quantities, Form of Tender, etc., may be obtained and Drawings inspected, at the Office of the County Surveyor, E. W. W. RICHARDS, A.M.I.C.E., A.M.Inst.Struct.E., A.M.I.Mun.E., County Buildings, Mold, during normal working hours upon the payment of a deposit of Three Guineas, which will be returned upon the receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes, marked "Tender for High Street, Conna's Quay," to be delivered to the undersigned not later than 10 a.m., TUESDAY, 17th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. HUGH JONES,
Clerk to the County Council.

County Buildings,
Mold.

COUNTY BOROUGH OF NORTHAMPTON.

TENDERS are invited for the CONSTRUCTION of approx. 320 lin. yd. of DUAL CARRIAGEWAY ROAD with Concrete Foundation and Asphalt Surfacing, comprising the Second Section of the Link Road between Bridge Street, A.50, and Black Lion Hill, A.45, together with incidental works.

Contractors wishing to tender should apply to the Borough Engineer, Guildhall, Northampton, enclosing crossed cheque (payable to Northampton Corporation) for £2 2s. This sum will be returned if a bona-fide Tender is received by 10 a.m. on 28th MAY, 1960, and not subsequently withdrawn.

C. E. VIVIAN ROWE,
Town Clerk.

BOROUGH OF KETTERING.

CATTLE MARKET.

FIXED-PRICE TENDERS are invited for the CONSTRUCTION of a NEW CATTLE MARKET in NORTHFIELD AVENUE, Kettering.

The Work comprises all General Excavation Work, Laying Foul and Surface Water Sewers, Constructing Roads, Paved Areas and Parking Areas, Installing Penning, Erecting Sale Rings, Dairy Cattle Building, Pig Building and other ancillary Works and Services in an area of approx. eight acres.

The Specification, Bills of Quantities and Form of Tender may be obtained from H. G. PERRY, ESQ., M.I.Mun.E., M.R.S.H., Borough Engineer and Surveyor, 3 Gold Street, Kettering, Northants, on payment of a deposit of Five Guineas, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn and the return of all documents.

The Drawings and General Conditions of Contract may be inspected during office hours at the office of the Borough Engineer and Surveyor.

Tenders are to be enclosed in plain sealed envelopes endorsed "Cattle Market Tender," and delivered to the undersigned not later than 12 Noon on MONDAY, 20th June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

D. DUNSFORD PRICE,
Town Clerk.

Council Offices,
Huxloe Place,
Kettering,
Northants,
April, 1960.

CITY OF WORCESTER.

ANNUAL ROAD SURFACING CONTRACT.

TENDERS are invited for HEATING and PLANING approx. 8,000 sq. yd. of CARRIAGEWAY SURFACING and for PROVIDING and LAYING MECHANICALLY STABILIZED HOT-ROLLED ASPHALT and PRECAST CHIPPINGS for PROVIDING and LAYING approx. 300 sq. yd. of TWO-COURSE DENSE TAR SURFACING at BUS STOPS, together with Trench Reinstatement Works in Hot-rolled Asphalt.

Tender documents are obtainable from the City Engineer, 22 Bridge Street, Worcester, upon deposit of Two Guineas, returnable on receipt of a bona-fide Tender.

Closing date, TUESDAY, 24th May, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

NEWMARKET RURAL DISTRICT COUNCIL.

BURWELL SEWERAGE AND SEWAGE TREATMENT WORKS.

CONTRACT NO. 1.

FIXED-PRICE TENDERS are invited from experienced civil engineering contractors for the CONSTRUCTION of approx. SEVEN MILES of 7 in., 9 in. and 12 in. GLAZED WARE SEWERS, with PRECAST CONCRETE MANHOLES, 5 in. and 6 in. SPUN-IRON PUMPING MAINS, THREE PUMPING STATIONS, a SEWAGE TREATMENT WORKS, HOUSE CONNECTIONS and other appurtenant Works.

The Treatment Works include Reinforced Concrete Sedimentation Tanks, Perculating Filters, Humus Tanks, Sludge Drying Beds, Site Roads, Store Building and Fencing.

The works will be located in the village of Burwell, in the Newmarket Rural District of Cambridgeshire.

The Contract period is 18 months, but a major portion of the Contract, including the treatment works and a pumping station, must be completed in nine months.

Instructions to Tenderers, Form of Tender, Conditions of Contract, Specification, Bills of Quantities and Drawings may be obtained on or after 25th April, 1960, by application to the Council's Consulting Engineers, MESSRS. HARRY BROMPTON AND PARTNERS, 7 Hobart Place, Westminster, London, S.W.1, upon payment of a deposit of Ten Guineas by cheque made payable to the Newmarket Rural District Council, which deposit will be returned on receipt of a bona-fide Tender not subsequently withdrawn and on return of all documents and Drawings.

Tender documents and Drawings may be examined at the offices of the Council and the Consulting Engineers by appointment.

Tenders are to be submitted to the undersigned not later than Noon on MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. W. EVANS,
Clerk of the Council.

Council Offices,
Park Lane,
Newmarket,
Suffolk.

CONTRACTS

BUCKS. COUNTY COUNCIL.

NEWPORT PAGNELL—NORTHAMPTON ROAD, A.50.

ROADWORKS—LATHBURY VILLAGE.

TENDERS are invited for ROADWORKS (approx. 500 yd.), comprising Concrete Widening, Channelling, Kerbing, Tarmacadam Shaping, Drainage and ancillary Works.

Drawings may be seen at the offices of the County Surveyor, County Offices, Aylesbury, from whom Contract documents may be obtained on payment of a deposit of £2, returnable on receipt of a bona-fide Tender.

Tenders must be received by me by 10 a.m. on MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. MILLARD,
Clerk of the Council.

County Hall,
Aylesbury,
April, 1960.

COUNTY BOROUGH OF MERTHYR TYDFIL.

NEW BRIDGE OVER THE RIVER TAFF.

TENDERS are invited for the CONSTRUCTION of a NEW TWO-SPAN SKEW ROAD BRIDGE over the RIVER TAFF at YNYSGAU, Merthyr Tydfil.

The Work includes the Construction of Masonry-faced Concrete Abutments, Pier and Wing Walls, with a Deck of Precast Prestressed Concrete Beams. The total span of the bridge is approx. 76ft., and the Contract also includes approx. 600ft. of Approach Road Works.

Copies of the Tender documents, Plans, Bridge Drawings and details may be obtained from the office of the Borough Engineer, Town Hall, Merthyr Tydfil, upon payment of a deposit of Five Guineas, returnable upon receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes marked "Ynysgau Bridge," must be delivered to the undersigned not later than 14th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and will not refund any expenses incurred by those tendering.

T. S. EVANS,
Town Clerk.

Town Hall,
Merthyr Tydfil.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

PENLAN MULTILATERAL SCHOOL.

PLAYING FIELDS.

TENDERS are invited for the COMPLETION WORKS in connection with the LAYING-OUT of PLAYING FIELDS for Penlan Multilateral School.

The works comprise the Laying-out of 12 acres of Playing Fields, including Hardplaying area, Seven Tennis Courts, and Cricket Square.

Form of Tender, Conditions of Contract, Specification and Bills of Quantities may be obtained from the Borough Engineer and Surveyor, Guildhall, Swansea, on deposit of £2. The deposit will be returned on receipt of a bona-fide Tender which is not subsequently withdrawn.

Tenders, on the prescribed Form of Tender, in sealed envelopes bearing no name or mark indicating the sender, and endorsed "Tender for Penlan School Playing Fields," must be delivered to me not later than Mid-day on the 20th day of MAY, 1960, by Registered Post.

The Council does not bind itself to accept the lowest or any Tender.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.

14th April, 1960.

HORSHAM URBAN DISTRICT COUNCIL.

SURFACE WATER DIVERSION—HORSHAM PARK.

The Council will shortly be inviting TENDERS for the ABOVE CONTRACT, which comprises the CONSTRUCTION of 27 in. dia. CONCRETE SURFACE WATER SEWER, together with certain ancillary works.

Contractors who wish to be included on the list of tenderers must notify the Surveyor to the Council by 10th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

S. ASHTON STRAY,
Clerk of the Council.

Council Offices,
Horsham Park,
Horsham.

ST. AUSTELL URBAN DISTRICT COUNCIL.

TENDERS are invited for the CONSTRUCTION of 4,403 lin. yd. of 6 in. CONCRETE TUBE SEWER at RUDDLEMOOR, St. Austell.

The Specification and Bill of Quantities can be obtained from H. G. KING, D.S.C., A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Municipal Offices, Truro Road, St. Austell, on payment of a deposit of Three Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders, in a plain sealed envelope endorsed "Tender for Ruddlemoor Sewerage," must be delivered to the undersigned on or before First Post on SATURDAY, 4th June, 1960.

Dated this 20th day of April, 1960.

(Signed) L. E. SAUNDERS,
Clerk to the Council.

Municipal Offices,
Truro Road,
St. Austell.

MERIDEN RURAL DISTRICT COUNCIL.

BICKENHILL SEWERAGE SCHEME.

TENDERS are invited for the CONSTRUCTION of approx. 1,335 lin. yd. of 9 in. dia. and 2,100 lin. yd. of 6 in. dia. GLAZED STONEWARE FOUL SEWER, together with 46 Manholes, and all ancillary works.

Documents may be obtained from, and Drawings inspected at, the Office of the Engineer and Surveyor, The Old Vicarage, High Street, Coleshill, near Birmingham, upon the payment of a deposit of Two Guineas, which will be refunded upon receipt of a bona-fide Tender.

Tenders, in envelopes which will be supplied with the documents, must be delivered to the undersigned not later than Noon on MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. E. HALE,
Clerk of the Council.

Old Bank House,
Coleshill,
Birmingham.

14th April, 1960.

CONTRACTS

BOROUGH OF WREXHAM.

ST. MARK'S CAR PARK.

FIXED-PRICE TENDERS are invited for the FOLLOWING:

- Construction of Car Park, including Pitched Foundation, Surface Water Drainage, Fencing, and ancillary works.
- Dense Tar Surfacing in Two-course Work (approx. area 4,300 sq. yd.).

Drawings and General Conditions of Contract may be inspected, and Specification and Bills of Quantities obtained from the Borough Engineer and Surveyor, 31 Chester Street, Wrexham, on payment of a deposit of £2 2s. for each Contract, refundable on receipt of bona-fide Tender(s).

Tenders, in the sealed envelope(s) provided, must be delivered to the undersigned not later than 12 Noon, MONDAY, 23rd May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham,
April, 1960.

THURROCK URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

PROPOSED ROUNDABOUT, JUNCTION STANFORD ROAD (A.13) AND BRENTWOOD ROAD (A.128), ORSETT.

TENDERS are invited for the CONSTRUCTION of a ROUNDABOUT, the Work comprising approx. 8,600 sq. yd. Carriageway, 1,900 lin. yd. Kerbing, 600 lin. yd. Surface Water Sewers, together with ancillary Works.

Copies of the Form of Tender, Specification and Bills of Quantities may be obtained from the Engineer and Surveyor, Council Offices, Whitehall Lane, Grays, on payment of £2 2s. deposit, which will be refunded on receipt of a bona-fide Tender and the return of all documents.

Drawings and General Conditions of Contract may be inspected at the Council Offices during normal office hours.

Tenders, accompanied by Specification and Priced Bill of Quantities in a plain sealed envelope endorsed "Roundabout A.13/A.128 Orsett," bearing no indication of the sender, must be delivered to reach the undersigned by not later than 12 Noon on TUESDAY, 17th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

A. E. POOLE,
Clerk of the Council.

Council Offices,
Whitehall Lane,
Grays.

KIRKBY-IN-ASHFIELD URBAN DISTRICT COUNCIL.

RECONSTRUCTION OF SEWAGE DISPOSAL WORKS.

CONTRACT K.3.

TENDERS are invited for the ABOVE WORK, which includes 14 Circular Tanks in Reinforced Concrete, each 36ft. internal dia. and average 14ft. deep; Two Pumping Stations (excluding machinery); New Filter Bed 10ft. dia.; 7,500 cu. yd. of Non-filtering Material (including Replacement in existing Beds); 6,000 sq. yd. of Sludge Drying Beds; various Smaller Tanks and Chambers, etc.

Tender documents (including Drawings) are obtainable from MESSRS. W. H. RADFORD AND SON, Consulting Engineers, 57 Goldsmith Street, Nottingham, on receipt of a crossed cheque for Five Guineas payable to Kirby-in-Ashfield U.D.C. The deposit will be returnable when a bona-fide Tender has been submitted, and all documents (except a duplicate copy of the Bills of Quantities) have been returned.

Any inquiries should be made to the Consulting Engineers.

Tenders, in plain sealed envelopes endorsed "Tender for Sewage Disposal Works," are to be delivered to my Office not later than First Post on WEDNESDAY, 8th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. J. THOMAS,
Clerk of the Council.

Public Offices,
Kirby-in-Ashfield,
Nottingham,
20th April, 1960.

URBAN DISTRICT COUNCIL OF BEDWORTH.

CONSTRUCTION OF FOUL SEWER TO SERVE MOUNT PLEASANT ESTATE, BEDWORTH.

TENDERS are invited from experienced contractors for the EXCAVATING FOR and LAYING OF approx. 850 lin. yd. of 12 in. dia. SALT GLAZED STONEWARE FOUL SEWER and approx. 45 lin. yd. of 12 in. dia. CLASS 'B' SPUN-IRON FOUL SEWER, including Construction of 13 Brickwork Manholes. Maximum depth of excavation 13ft.

Conditions of Contract, Bill of Quantities and Drawings obtainable from the Engineer and Surveyor, Council Offices, High Street, Bedworth, near Nuneaton, upon payment of Two Guineas, which will be returned on receipt of a bona-fide Tender and the return of all documents.

Sealed Tenders, in the envelope provided, to be delivered to the undersigned not later than 9 a.m. on THURSDAY, 25th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

S. G. DEEMING,
Clerk of the Council.

Council Offices,
High Street,
Bedworth.

HAVANT AND WATERLOO URBAN DISTRICT COUNCIL.

SEA DEFENCES—EASTOKE CORNER, HAYLING ISLAND.

The Urban District Council of Havant and Waterloo invite TENDERS for the CONSTRUCTION of SEA DEFENCE WORKS at Eastoke Corner, Hayling Island.

The works consist of the Construction of Box Groynes along a Frontage of approx. 240 yds., 50ft. wide, the Construction of a Concrete Slipway and a Short Extension to the Sea Wall, and the Construction of Two Conventional Groynes.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom Specifications, Bills of Quantity and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender," followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK OF THE COUNCIL, Town Hall, Havant, not later than 12 Noon on THURSDAY, the 12th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

Council Offices,
Park Lane,
Havant.

CONTRACTS

BOROUGH OF CAERNARVON.
ABER BRIDGE RECONSTRUCTION.

TENDERS are invited from firms experienced in bridge reconstruction, for the STRENGTHENING and IMPROVEMENT of ABER SWING BRIDGE and the Approach Roads to the Bridge. The Bridge, which is of steel construction, carries one line of road traffic and is about 250ft. long, the swing span being about 150ft. long.

The works include the Replacement and Strengthening by Welding of certain bridge members, the Provision of Timber Footways, Steel Road Deck and Macadam Surfacing, the Replacement in Cast-iron of the Roller Paths and Rollers, Alterations to the Operating Mechanisms, and the Improvement of the Approach Roads.

Instructions to persons tendering, and documents, may be obtained from the Consulting Engineers, F. R. BULLEN AND PARTNERS, Dacre House, Dean Farrar Street, Westminster, S.W.1, on payment of £5 5s. deposit, returnable upon receipt of a bona-fide Tender.

Applications for Tender documents should be made to the Consulting Engineers by 10th MAY, 1960.

On and after 2nd May, 1960, Drawings may be inspected at the Offices of the Borough Engineer and Surveyor, Swyddfa'r Dref, High Street, Caernarvon, or at the Offices of F. R. BULLEN AND PARTNERS, either in London or at 42 Victoria Road, Darlington, Co. Durham, without charge.

Tenders are to be delivered to the undersigned, in a plain sealed envelope, before 12 o'clock Noon on 14th JUNE, 1960.

J. Q. SMITH,
Town Clerk,
Borough of Caernarvon.

Town Clerk's Office,
Briggs Chambers,
Caernarvon.

POPULAR BOROUGH COUNCIL

TENDER FOR TOWELS.

TENDERS are invited for the SUPPLY of 200 Dozen TURKISH TOWELS for the Baths Establishments.

Full particulars can be obtained from the TOWN CLERK, Popular Town Hall, Bow Road, E.3, to whom Tenders must be delivered not later than 7 p.m. on WEDNESDAY, 18th May, 1960.

BANSTEAD URBAN DISTRICT COUNCIL.

DEMOLITION OF MILITARY BLOCKHOUSES,
AIR RAID SHELTERS, STATIC WATER TANK BASES,
ETC.

TENDERS are invited for the DEMOLITION and CLEARANCE of the ABOVE TYPE DEFENCE WORK on VARIOUS SITES within the Urban District.

Conditions of Contract and Drawings may be inspected at, and Specification, Schedule of Works and Tender Form may be obtained from, the Engineer and Surveyor, The Council House, Brighton Road, Banstead, upon payment of a deposit of £2 2s. returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Demolition of Blockhouses, etc.," and not bearing any name or mark indicating the sender, must be returned to the undersigned not later than WEDNESDAY, 25th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. L. SHAW,
Clerk of the Council.

The Council House,
Brighton Road,
Banstead, Surrey.

BANSTEAD URBAN DISTRICT COUNCIL.

COLD ASPHALT SURFACING SECTIONS OF A.217
BRIGHTON ROAD AT BURGH HEATH AND AT
LOWER KINGSWOOD.

TENDERS are invited for the SUPPLY and LAYING BY MACHINE SPREADER of approx. 320 tons of FINE COLD ASPHALT SLAG AGGREGATE, with the necessary quantity of Precast Granite Chippings, all in accordance with B.S.1690.

Tender documents may be obtained from, and Conditions of Contract may be inspected at the Office of the Engineer and Surveyor, Council Offices, Brighton Road, Banstead, Surrey, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Tender for Resurfacing—Brighton Road," must be returned to the undersigned not later than 17th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

F. L. SHAW,
Clerk of the Council.

The Council House,
Brighton Road,
Banstead.

BEESTON AND STAPLEFORD URBAN
DISTRICT COUNCIL.BEESTON SEWAGE DISPOSAL WORKS EXTENSIONS.
GENERAL CONTRACT.

TENDERS are invited from responsible and experienced contractors, for the ABOVE CONTRACT, for EXTENSIONS to the Beeston Sewage Disposal Works, comprising the FOLLOWING:
Detritus Channels and Screening Chambers;
Storm Water Tanks; Alterations to existing Tanks and Filters; Humus Tanks; Sludge Digestion Tanks and Pumping Stations;
Sludge Drying Beds; Site Works, Roadways, etc.

The Contract Drawings, Specifications and Bills of Quantity can be inspected at the Offices of the Council's Consulting Engineers, MESSRS. ELLIOTT AND BROWN, Stanley House, Pelham Road, Nottingham, on and after MONDAY, 25th April, 1960, and copies of the Specification and Bills of Quantity can be obtained from them on deposit of Five Guineas (by cheque payable to the Beeston and Stapleford U.D.C.), which will be refunded on receipt of a bona-fide Tender not afterwards withdrawn, and the return of all documents loaned the contractor for the purpose of making-up his Tender.

Applications for Tender documents from contractors who have not previously carried out work under the Engineers should be accompanied by a list of similar work carried out, together with names and addresses of the responsible Engineers to whom reference can be made.

Sealed Tenders endorsed "Tender for Beeston Sewage Works," are to be delivered to the undersigned not later than Noon on MONDAY, 23rd May, 1960.

The lowest or any Tender will not necessarily be accepted.

H. D. JEFFRIES,
Clerk of the Council.

Town Hall,
Beeston,
Nottingham.

CONTRACTS

COUNTY BOROUGH OF NORTHAMPTON.
(AMENDED ADVERTISEMENT.)

TENDERS are invited for the CONSTRUCTION of approx. 1,500yd. of FOUL and SURFACE WATER SEWERS 6in. Soil, in dia., together with RIVER OUTFALL, MANHOLES, and ancillary works, in the Central Redevelopment Area.

Contractors wishing to tender should apply to the Borough Engineer, Guildhall, Northampton, enclosing crossed cheque (payable to Northampton Corporation) for £2 2s. This sum will be returned if a bona-fide Tender is received by 10 a.m. on 28th MAY, 1960, and not subsequently withdrawn.

C. E. VIVIAN ROWE,
Town Clerk.

BOROUGH OF SHREWSBURY.

DITHERINGTON VILLAGE REDEVELOPMENT.
PART II—ROADS AND SEWERS.

TENDERS are invited for the ABOVE WORKS comprising the following approx. quantities:—

Bituminous Roads, 4,000 sq. yd.
Foul and Surface Water Sewers, 6in. and 9in. dia. 1,350 lin. yd.

Tender documents obtainable from Borough Surveyor Guildhall, Shrewsbury, on receipt of Two Guineas deposit (cheques payable to Shrewsbury Corporation). Tenders, in sealed envelope provided, to reach undersigned not later than Noon on WEDNESDAY 25th May.

S. R. H. LOXTON,
Town Clerk.

Guildhall,
Shrewsbury.

CITY OF ROCHESTER.

LEVELLING AND SEEDING OF LABURNUM ROAD
RECREATION GROUND.

LUMP-SUM TENDERS are invited for the LEVELLING and SEEDING of the LABURNUM ROAD RECREATION GROUND.

The works comprise the Bulk Excavation of approx. 5,000 cu. yd. Soil to be spread at fixed gradients, together with Stripping, Stacking and Re-spreading of Topsoil, Forming of Banks, Seeding of the whole area of approx. 19,300 sq. yd., and other ancillary works.

Drawings and General Conditions of Contract may be seen at the Office of J. A. PEEL A.M.I.C.E., A.M.I.Mun.E., City Surveyor, 46 Maidstone Road, Rochester, during normal office hours, and from whom the Form and Conditions of Tender, Special Conditions of Contract, Specification and Bill of Quantities may be obtained on payment of a deposit of £2 2s., which will be refundable on the acceptance of a bona-fide Tender.

Tenders must be delivered to the undersigned, in the manner detailed in the above documents, not later than 12 Noon on MONDAY, 23rd May, 1960. The Corporation do not bind themselves to accept the lowest or any Tender.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.

21st April, 1960.

DURSLEY RURAL DISTRICT COUNCIL.

COMPREHENSIVE SCHEME OF WATER SUPPLY—
CONTRACT NO. 4—WITHIN THE PARISHES OF
CAM AND COALEY.

The Council invite TENDERS on a fixed-price basis from experienced civil engineering contractors for the FOLLOWING WORKS OF WATER SUPPLY:—

(1) Construction of a 40,000-gallon Concrete Reservoir.

(2) Construction of a 5,000-gallon Concrete Break Pressure Tank.

(3) The Provision and Laying of Spun-Iron Water Mains, 200 lin. yd. 6in. dia.

(4) The Provision and Laying of Asbestos-Cement Pressure Mains:—

(a) 2,340 lin. yd. 6in. dia.

(b) 3,780 lin. yd. 4in. dia.

(c) 3,300 lin. yd. 3in. dia.

(5) The Provision and Laying of Galvanised Steel Mains of 2in. and 1½in. dia., 850 lin. yd.

(6) The Provision and Laying of new Service Connections, together with Disconnection of existing Service Connections from existing Mains and Reconnection to new Mains, together with ancillary works.

Contractors desirous of tendering are requested to advise the Council's Consulting Engineers, Messrs. T. WARD WHITEFIELD AND SON, 54 Stallard Street, Trowbridge, Wilts., not later than the 14th MAY, 1960, after which they will receive full particulars. The applications must be accompanied by a deposit of Five Guineas, which will be returned after receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes, endorsed "Tender for Water Works," must reach the undersigned by a date to be given by the Engineers.

The Council do not bind themselves to accept the lowest or any Tender.

H. A. PATE,
Clerk of the Council.

Council Offices,
Kingshill,

Dursley, Glos.
20th April, 1960.

MARLBOROUGH AND RAMSBURY
RURAL DISTRICT COUNCIL.

GREAT BEDWYN DRAINAGE—CONTRACT NO. 5.

The Marlborough and Ramsbury Rural District Council are prepared to receive TENDERS for the CONSTRUCTION of a bona-fide Tender.

(a) Approx. 4,000yd. of 9in. and 6in. Concrete Sewers and 450yd. of 5in. Spun-Iron Pumping Main, together with Manholes and other appurtenant Works.

(b) Sewage Treatment Works, comprising two Screening Chambers, two Settlement Tanks, two Filters, two Humus Tanks, four Sludge Beds, a Pumping Station, Ejector Station, Access Road and Fencing, all in accordance with Plans and Specification prepared by the Engineers, MESSRS. JOHN TAYLOR AND SONS, Artillery House, Artillery Row, Westminster, S.W.1.

Copies of the Specification, Bill of Quantities, Form of Tender may be obtained from the offices of the Engineers upon payment of £10 (cheque only, made payable to the Council), which will be returned upon receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender—Great Bedwyn Drainage," should be received by me at my office on or before Noon on FRIDAY, 3rd June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

(Signed) A. G. HUNT,
Clerk of the Council.

Council Offices,
London Road,
Marlborough,
Wilts.

CONTRACTS

BOROUGH OF FARNWORTH.
SURFACE DRESSING OF ROADS, 1960-61.

TENDERS are invited for the SURFACE DRESSING of approx. 30,000yd. of ROADS.

Specification, Forms of Tender and General Conditions may be obtained on application to the Borough Engineer and Surveyor, at the undermentioned address. Tenders in a plain sealed envelope, endorsed "Tender for Tarspraying," should be delivered to the undersigned not later than TUESDAY, 10th May, 1960.

THOMAS HITCHEN,
Town Clerk.

Town Hall,
Farnworth,
Lancs.

CITY OF CARDIFF.

FIDLAS ROAD IMPROVEMENT.

FIXED-PRICE TENDERS are invited for FIDLAS ROAD IMPROVEMENT, comprising approx. 3,500 sq. yd. of Carriageway, 400yd. of 9in. dia. S.W. Sewers, and ancillary Works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co."

The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Fidas Road Improvement," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than FRIDAY, 13th MAY, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer. The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

CITY OF CARDIFF.

PENARTH ROAD INDUSTRIAL ESTATE
PREPARATION—PART I.

FIXED-PRICE TENDERS are invited for PENARTH ROAD INDUSTRIAL ESTATE ADVANCE PREPARATION WORKS, comprising approx. 8,000 sq. yd. of Carriageway, 1,500 lin. yd. of 27in. down to 12in. dia. F.W. and S.W. Sewers, and ancillary Works.

Conditions of Tender, Specification, Bills of Quantities and Drawings may be obtained from the City Surveyor, to whom application should be made, accompanied by a deposit of the sum of £2 2s. Cheques should be made payable to the Cardiff Corporation and crossed "Not Negotiable and Co." The deposit will be refunded on receipt of a bona-fide Tender or the return of the Contract documents by the closing date.

Tenders will not be considered unless enclosed in a plain sealed envelope endorsed "Tender for Penarth Road Industrial Estate Preparation—Part I," addressed to the undersigned at the City Hall, Cardiff, and sent by Registered Post so as to be received not later than TUESDAY, 17th May, 1960.

The envelope must not bear the name of or any mark indicating the identity of the tenderer. The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

21st April, 1960.

RURAL DISTRICT COUNCIL OF
GLOUCESTER.

LONGFORD SEWAGE DISPOSAL WORKS.

EXTENSION SCHEME.

CONTRACT NO. 3.

The Council invite contractors with experience at similar works, who desire to TENDER for the ABOVE-MENTIONED CONTRACT, to submit their names and give full details of such experience, together with the names of three Engineers for whom similar works have been carried out, to the Clerk to the Council not later than the 21st May, 1960.

The Contract will comprise the Construction of the undermentioned Works, in accordance with the Drawings, Specification, Bill of Quantities and General Conditions of Contract prepared by MESSRS. W. HERBERT BATEMAN AND PARTNERS, of Bath, the Consulting Engineers to the Council:—

(1) The Construction in Mass Concrete of Three Stormwater Tanks of 225,000 gallons total capacity.

(2) The Construction in Reinforced Concrete of a Circular Primary Settling Tank, capacity 150,000 gallons.

(3) The Construction in Reinforced Concrete of Three Surface Aeration Tanks of 231,000 gallons total capacity.

(4) The Construction in Reinforced Concrete of a Heated Sludge Digestion Tank, capacity 625,000 gallons, Heater House, Surplus Gas Burner and Foundation Works to Gas Holder.

(5) The Construction of a Sludge Pumping Station.

(6) All Ancillary Access Roads, Paths, Site Drains, Alterations and Extensions to Existing Channels, etc.

(7) Improvements to Existing Access Roads.

(8) Improvements to Existing Office, Laboratory and Garage Accommodation.

The Council reserve the right to select the firms who will be invited to Tender, and it is anticipated that the Tender documents will be available to the selected contractors on or about the 28th MAY, 1960.

W. J. KNIGHT,
Clerk to the Council.

29 Brunswick Square,
Gloucester.

27th April, 1960.

TEIFSIDE RURAL DISTRICT COUNCIL.

HOUSING ESTATE AT PARCLLYN, ABERPORTH.

APPLICATIONS are invited from public works and civil engineering contractors for undertaking the EXISTING SEWERS and HOUSE DRAINAGE and the LAYING of such new PIPE LINES and other Works in connection therewith, as may be ordered by and under the supervision of the Council's Engineer. The Contract to be on a "cost plus" basis.

Applications to be received by the undersigned by the 18th MAY, 1960.

F. T. GEORGE,
Clerk to the Council.

Council Offices,
Brynderwern,
Adpar,

Newcastle-Emlyn,
Carmarthen.

28th April, 1960.

CONTRACTS

BOROUGH OF BASINGSTOKE.

ROADS AND SEWERS—33rd INSTALMENT—SOUTH HAM.

TENDERS are invited for the CONSTRUCTION of approx. 5,600 sq. yd. of 6in. UNREINFORCED CONCRETE CARRIAGEWAYS, with approx. 2,800 sq. yd. of BITUMEN MACADAM SURFACING, together with SURFACE WATER DRAINAGE and approx. 300 lin. yd. of 6in. FOUL SEWERS, and other ancillary works. Specification, Bill of Quantities and Form of Tender may be obtained from the Borough Surveyor, Municipal Buildings, Basingstoke, on payment of a £2 2s. deposit which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned, in a plain sealed envelope endorsed "Tender for Roads and Sewers—33rd Instalment—South Ham," not later than Noon on MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

L. WOMERSLEY, Town Clerk.

Municipal Buildings, Basingstoke, 25th April, 1960.

BOROUGH OF EPSOM AND EWELL.

DEMOLITION OF COTTAGES.

The Corporation invite TENDERS from experienced contractors for the DEMOLITION of COTTAGES and ancillary Buildings at WEST STREET, Ewell. Copies of Plans, Conditions of Contract, Specification, Forms and Conditions of Tender may be obtained from the office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours, upon payment of a deposit of £2 2s. Deposits will be returned to contractors submitting a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on MONDAY, 30th May, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Demolition—West Street, Ewell." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE, Town Clerk.

Town Hall, The Parade, Epsom, Surrey, April, 1960.

BOROUGH OF EPSOM AND EWELL.

CONSTRUCTION OF ROAD AND SEWERS.

The Corporation invite TENDERS from public works contractors for the CONSTRUCTION of ROAD and SEWERS and ancillary Works at WEST STREET, Ewell. Copies of Plans, Conditions of Contract, Specification, Bill of Quantities, Conditions and Form of Tender may be obtained from the office of MR. COLIN COBBETT, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, Town Hall, Epsom, during working hours, upon payment of a deposit of £2 2s. Deposits will be returned to contractors submitting a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to me at the address mentioned below not later than Noon on MONDAY, 30th May, 1960, and no Tender will be received and considered unless it is enclosed in a plain sealed envelope endorsed "Road and Sewers—West Street, Ewell." This envelope must not bear any mark or name indicating the sender.

The Corporation do not bind themselves to accept the lowest or any Tender.

EDWARD MOORE, Town Clerk.

Town Hall, The Parade, Epsom, Surrey, April, 1960.

CARLTON URBAN DISTRICT COUNCIL.

TENDERS are invited for either or both of the FOLLOWING:

- Repairs to Walls and Build New Steps, etc., in Phoenix Avenue.
- The Construction of Carriageway, Footpath, and incidental works, between Rhyll Crescent and Harlow Grove.

Specifications, Bills of Quantities and Form of Tender may be obtained from the Engineer and Surveyor, E. C. KIRK, A.M.I.C.E., F.R.I.C.S., M.I.Mun.E., indicating which documents are required, and where Drawings and General Conditions of Contract may be inspected during normal office hours.

Deposit of £2 in respect of each job, returnable on receipt of bona-fide Tender not subsequently withdrawn.

Tenders, in a plain sealed envelope endorsed (a) "Repairs to Wall and New Steps, Phoenix Avenue," (b) "Proposed Road between Rhyll Crescent and Harlow Grove," to reach the undersigned not later than 10 a.m., 17th May, 1960.

The Council do not bind itself to accept the lowest or any Tender.

A. E. F. WALKER, Clerk of the Council.

Council House, Burton Road, Carlton, Nottingham, 21st April, 1960.

AMPHILL RURAL DISTRICT COUNCIL.

SEWERAGE OF MAULDEN, CLOPHILL AND SILSOE.

The Ampthill Rural District Council invite TENDERS from public works contractors for the LAYING of approx. 12½ miles of 7in. to 15in. dia. CONCRETE SEWERS and a mile of 6in., 6in. and 10in. dia. ASBESTOS-CEMENT RISING MAINS, the CONSTRUCTION of THREE PUMPING STATIONS and a SEWAGE DISPOSAL WORKS.

Tender documents and Drawings may be obtained from 16th May to 10th May, 1960, at the office of the Engineers, MESSRS. BINNIE, DEACON AND GOURLEY, Artillery House, Artillery Row, Westminster, S.W.1, on payment of a cheque for £10, made payable to the Ampthill Rural District Council, which amount will be refunded on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tender for Sewerage of Maulden, Clophill and Silsoe," must be delivered at my office before Noon on MONDAY, 27th June, 1960.

The Council do not undertake to accept the lowest or any Tender and will not defray any expenses in connection with tenders, but bidders must make themselves fully acquainted with the site and conditions of work.

H. ROBINSON, Clerk of the Council.

Amphill R.D.C., 12 Dunstable Street, Ampthill, Bedfordshire.

CONTRACTS

LANCASHIRE COUNTY COUNCIL.

TENDERS are invited for the FOLLOWING CONTRACT:

Bridge works involved in the Improvement of the Liverpool-Preston Trunk Road, A.59, from Dunnington Bridge Road to Maghull Diversion. The Bridge works include the following: (a) Reconstruction and Widening of Dunnington Centre Bridge. The existing bridge is a masonry arch and is to be replaced by a reinforced concrete box culvert; (b) Reconstruction and Widening of Dunnington South Bridge. The existing bridge is a masonry arch and is to be replaced by a new bridge of 30ft. square span having piled masonry concrete abutments and wing walls supporting a steel beam and concrete jack arch deck; (c) Demolition of Dunnington Railway Bridge, 35ft. span, having masonry faced abutments and wing walls and steel girder deck.

Plans and Contract documents obtainable from COUNTY SURVEYOR, P.O. Box 9, County Hall, Preston, on deposit of £10, which will be refunded only on receipt of a Tender and the return of all documents and Drawings supplied.

Cheques to be made payable to Lancashire County Council. Contractors to quote Ref. 142/51. Tenders to be received not later than 10 a.m. on FRIDAY, 3rd June, 1960.

COUNTY BOROUGH OF MIDDLESBROUGH.

PUBLIC CONVENIENCES—ALBERT MEWS.

TENDERS are invited for the ERECTION of MEN'S and WOMEN'S CONVENIENCES in the TOWN CENTRE in Single-storey Traditional Construction with superior finishes.

Bills of Quantities obtainable from the Borough Engineer; deposit Two Guineas.

Tenders to be received by the TOWN CLERK on or before 2nd JUNE, 1960.

BOROUGH OF BODMIN.

WESTHEATH SEWERAGE SCHEME.

FIRM-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of the ABOVE WORKS, including the Provision and Laying of 577 lin. yd. of 9in. dia. and 246 lin. yd. of 12in. dia. Stoneware Sewers, 600 lin. yd. of 12in. x 18in. Concrete Egg-shaped Sewers and the Construction of 17 Manholes, together with a Sewage Disposal Works, comprising Concrete Tanks, Conventional Biological Filters, Drying Beds, and ancillary works. Copies of the Conditions of Contract, Specification and Bill of Quantities and salient Drawings can be obtained from the Consulting Engineers, MESSRS. S. H. IVORY AND PARTNERS, 24 Athenaeum Street, Plymouth, on payment of a deposit of Five Guineas, which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents and Drawings.

Sealed Tenders, endorsed "Westheath Sewerage Scheme," must be delivered to the undersigned not later than Noon on the 23rd MAY, 1960.

The Council are not bound to accept the lowest or any Tender.

I. WHITING, Town Clerk.

Municipal Offices, Priory House, Bodmin, April, 1960.

BOROUGH OF HOVE.

TENDERS are invited for MAKING-UP ROADWAY, PROVIDING and LAYING CONCRETE KERRING and CHANNELLING and ARTIFICIAL STONE SLAB PAVING and other works, in QUEEN VICTORIA AVENUE (Sandringham Drive to Elizabeth Avenue), approx. 16½ft. in length. Also for similar work in THE MEADOWS, approx. 150ft. in length.

Further particulars may be obtained from Plans and Specification seen at the Office of the Borough Engineer and Surveyor, MR. T. R. HUMBLE, A.M.I.C.E.

Firm-price Tenders, on forms supplied, addressed to the undersigned and endorsed "Tender for Queen Victoria Avenue" and/or "The Meadows," as the case may be, will be received up to 10 a.m. on FRIDAY, 20th May, 1960.

The lowest or any Tender will not necessarily be accepted.

JOHN E. STEVENS, Town Clerk.

Town Hall, Hove, 21st April, 1960.

COSELEY URBAN DISTRICT COUNCIL.

TENDERS FOR PLANT.

Coseley Council invite TENDERS for the SUPPLY of the FOLLOWING PLANT, viz.:

- 8½-ton Diesel Roller, Roller with Hydraulic Scarifier, Cab, Scrinklers, etc.
- 6½cwt. Petrol Vibrating Roller.
- ¾ cu. yd. Hydraulic Mechanical Loading Shovel with Diesel Engine, Cab, Lighting, etc.

Firms tendering should quote for any ancillary equipment available for each item of equipment, and also send full particulars and specification of the plant to be supplied.

Firms may tender for all or any of the plant, and Tenders, in plain sealed envelopes, suitably endorsed, should be sent to the Clerk of the Council, Council House, Coseley, not later than First Post on TUESDAY, the 10th May, 1960.

J. C. ROPER, Clerk of the Council.

Council House, Coseley.

NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BOARD.

PROPOSED DEVELOPMENTS AT THE LUTON AND DUNSTABLE HOSPITAL, DUNSTABLE ROAD, LUTON, BEDS.

Building contractors wishing to TENDER for the ABOVE WORK are invited to submit their names for inclusion on a selected list of tenderers.

The Work will consist of a Single-storey Casualty Department and Twin Theatres, a Five-storey Block containing Ward and X-ray Department and Two Link Blocks of Six and Two Storeys, respectively, joining the Five-storey Block to the existing building.

The estimated cost of the project is approx. £500,000. It is anticipated that invitations to Tender will be issued in June, 1960, and that the work will commence in August, 1960.

Applications, together with details of works carried out and their value, should reach the REGIONAL ARCHITECT, North-West Metropolitan Regional Hospital Board, 40 Esher Terrace, London, W.2, not later than MONDAY, 30th May, 1960.

CONTRACTS

BOROUGH OF BARKING.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

RECONSTRUCTION OF ALFRED'S WAY (A.13) BETWEEN GASCOIGNE ROAD AND KING EDWARD'S ROAD.

TENDERS, returnable by 9 a.m. on THURSDAY, the 26th May, 1960, are invited for the BREAKING-UP of the EXISTING CONCRETE and ASPHALT CARRIAGEWAY and RECONSTRUCTING with a 10in. thick REINFORCED CONCRETE SLAB, 1,720 sq. yd. in extent, together with ancillary Drainage and Kerbing Works.

Specification, Bill of Quantities and Form of Tender can be obtained on application to the Borough Engineer and Surveyor, Town Hall, Barking, Essex. E. R. FARR, Town Clerk.

BOROUGH OF BILSTON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

BUNKERS HILL LANE—CONSTRUCTION OF NEW STORM SEWER.

TENDERS are invited for the CONSTRUCTION of approx. 320 lin. yd. of 15in. dia. CONCRETE PIPES and 150 lin. yd. of 9in. dia. SECONDS QUALITY GLAZED STONEWARE PIPES, together with Manholes and ancillary works.

Drawings may be inspected at the Office of the Borough Engineer and Surveyor, Municipal Buildings, Bilton, Staffs., from whom Tender documents may be obtained upon payment of deposit of Two Guineas, which sum will be refunded upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "Contract No. 244—Bunkers Hill Lane—Construction of New Storm Sewer," to be delivered to the undersigned not later than 12 Noon on FRIDAY, the 27th May, 1960.

The lowest or any Tender will not necessarily be accepted.

A. M. WILLIAMS, Town Clerk.

Town Hall, Bilston, Staffs., April, 1960.

BERKHAMSTED URBAN DISTRICT COUNCIL.

SUPPLY OF BRISTOL D445 DUPLEX ANGLEDROZER AND CONDER 1½/2 CU. YD. HYDRAULIC SCRAPER.

FIXED-PRICE TENDERS are invited for the SUPPLY of the ABOVE-MENTIONED ITEMS OF EQUIPMENT.

Tender documents may be obtained from the Engineer and Surveyor, MR. ROBERT E. HULSE, M.I.Mun.E., L.R.I.B.A., A.R.S.H., at these Offices, and should be returned to the undersigned not later than Noon on THURSDAY, the 12th day of May, 1960.

D. T. THORNE, Clerk of the Council.

Civic Centre, Berkhamsted, Herts.

BERKHAMSTED URBAN DISTRICT COUNCIL.

KARRIER GAMECOCK 18 CU. YD. DUAL-TIP REFUSE COLLECTION VEHICLE.

FIXED-PRICE TENDERS are invited for the SUPPLY of the ABOVE-MENTIONED VEHICLE.

Form of Tender and Specification may be obtained from the Engineer and Surveyor, MR. ROBERT E. HULSE, M.I.Mun.E., L.R.I.B.A., A.R.S.H., at these Offices, and should be returned to the undersigned not later than Noon on THURSDAY, the 12th day of May, 1960.

D. T. THORNE, Clerk of the Council.

Civic Centre, Berkhamsted, Herts.

ALDRIDGE URBAN DISTRICT COUNCIL.

STREET LIGHTING.

TENDERS are invited, on a Fixed-price Basis, for the FOLLOWING:

- The Erection Only of 12 Group "A" Reinforced Concrete Lighting Columns; 44 Group "B" Reinforced Concrete Lighting Columns, and the Supply and Erection of 12 140-W Sodium Lamps and gear, 19 60-W Sodium Lamps and Gear, and 25 100-W Tungsten filament Lamps and Lanthorns.
- The Erection Only of 43 Group "B" Reinforced Concrete Lighting Columns, and the Supply and Erection of 35 60-W Sodium Lamps and Gear, and Eight 100-W Tungsten Lamps and Lanthorns.

Relevant documents may be obtained from, and Conditions of Contract and Drawings inspected at, the Office of the Engineer and Surveyor, 9 Leighwood Road, Aldridge.

Deposit £2 2s. refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in the envelopes provided, and endorsed "Street Lighting Programme 1960/61," must be delivered to the undersigned not later than Noon, 10th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

CLERK OF THE COUNCIL.

The Council House, Aldridge, Staffs., 22nd April, 1960.

BIRMINGHAM TAME AND REA DISTRICT DRAINAGE BOARD.

MINWORTH NEW WORKS—MATERIALS AND EQUIPMENT.

TENDERS are invited for the FOLLOWING:

- Hand Operated Pentstocks—Five 4½in. and 27in. dia. Circular Pentstocks.
- Watertight Duct Covers—325 sq. ft. Cast-iron Duct Covers.
- Miscellaneous Cast-iron Items—326 Cast-iron Handrail Standards, 17 Valve Chamber Covers, Chequer Plate Kerbing, Stop Plank Guides, Manhole Cover and Step Irons.

Sets of Tender documents for any of the above items may be obtained from the Engineer to the Board, Rookery Park, Erdington, Birmingham, 24.

Tenders, in the envelope provided, must reach the undersigned not later than Noon on FRIDAY, 26th May, 1960.

The Board is not bound to accept the lowest or any other Tender.

ARTHUR J. WRIGHT, Clerk to the Board.

Clerk's Office, Lombard House, Great Charles Street, Birmingham, 3.

CONTRACTS

COUNTY COUNCIL OF DURHAM.

TENDERS are invited for SUPPLYING LIGHT EQUIPMENT—Kitchen Utensils, Cutlery, Hollow-ware, Glassware, Plastics, Turnery, Textiles, Hollow-ware, Brushes, Electric Lamps and Miscellaneous Items—for year ending 31st August, 1961.
Forms of Tender, returnable by 20th May, 1960, from undersigned.

G. H. METCALFE,
Director of Education.

Shire Hall,
Durham.
25th April, 1960.

COUNTY BOROUGH OF HALIFAX.

SURFACING OF ROADS.

TENDERS are invited for the PROVISION and LAYING by MECHANICAL SPREADER on VARIOUS ROADS in the BOROUGH of the FOLLOWING—
(a) Approx. 20,000 sq. yd. of Hot-rolled Asphalt.
(b) Approx. 30,000 sq. yd. of Cold Asphalt.

Details from the Borough Engineer, Crossley Street, Halifax, on payment of a deposit for each type of surfacing of £1 (cheques payable to Halifax Corporation). Tenders to the TOWN CLERK, Town Hall, Halifax, by SATURDAY, 14th May, 1960.

METROPOLITAN BOROUGH OF LEWISHAM.

TENDERS are invited for the SUPPLY of the FOLLOWING—

- Two Vans, 10-12cwt.
 - Two Vans, 20-25cwt.
 - Two Box Vans, 2 ton.
 - Three Long Wheelbase Lorries, 5 tons.
- In each case offers are invited for taking used vehicles in part exchange.
Particulars and forms of Tender obtainable from the BOROUGH ENGINEER, Lewisham Town Hall, Catford, S.E.6.
Closing date, 12 Noon, SATURDAY, 28th May, 1960.

BOROUGH OF BRIGHOUSE.

AIR COMPRESSOR.

TENDERS are invited for the SUPPLY of a PORTABLE AIR COMPRESSOR with an output of not less than 10 cu. ft. free air per minute at 100lb. per sq. in., powered by a Diesel Engine. The machine should be complete with necessary tools, and painted green.

A full specification of the machine should be enclosed with each Tender, and the Tender price should include for all fittings and tools included in this specification.

A Broomwide Compressor owned by the Corporation will be offered in part exchange, and the tenderer should state the allowance he is prepared to make for this machine, which may be inspected at the Highways Depot, Clifton Road, Brighouse, during normal working hours.

Any further information required may be obtained from the Borough Engineer, Commercial Street, Brighouse.

Tenders, in plain sealed envelopes endorsed "Tenders—Air Compressor," accompanied by details of the machine, time of delivery, should be sent to reach the undersigned not later than the 18th MAY, 1960.

JOHN R. LIDDLE,
Town Clerk.

Town Hall,
Brighouse.
21st April, 1960.

BOROUGH OF BRIGHOUSE.

MAIN DRAINAGE RECONSTRUCTION SCHEME—CONTRACT 15.

TENDERS are invited for the LAYING of 1,495 lin. yd. of 36in., 30in., 27in., 24in., 18in. and 15in. dia. CONCRETE PIPE SEWERS, together with 23 Manholes, and other works.
Conditions of Tender and other documents may be obtained from, and Drawings inspected at, the Office of the Borough Engineer, Brighouse, on payment of One Pound, which is returnable on receipt of a bona-fide Tender.

Tenders, endorsed "Main Drainage Reconstruction Scheme—Contract 15," must be received by the undersigned not later than WEDNESDAY, the 18th May, 1960.

JOHN R. LIDDLE,
Town Clerk.

Town Hall,
Brighouse.

RUTHIN RURAL DISTRICT COUNCIL.

GRAIG-FECHAN—CONTRACT NO. SD4.

SEWERAGE AND SEWAGE DISPOSAL.

TENDERS are invited for CARRYING OUT THE WORKS, which comprise the FOLLOWING—

- Four Water Sewers—6in. dia. Salt Glazed Ware, approx. 1,500 lin. yd., complete with Brick and Precast Concrete Manholes.
- Sewage Disposal Works, to serve a population of 120 persons, consisting of Screening Chamber, Sedimentation Tanks, Percolating Filter Beds, Humus Tanks, Drying Beds, Access Road, etc.
- The Restoration of Surfaces and the Maintenance of the Works for a period of 12 Months.

Copies of the General Conditions of Contract, Specification, Bill of Quantities, Drawings and Form of Tender may be obtained from SIR HERBERT HUMPHRIES AND McDONALD, Consulting Engineers, Park Chambers, 276 Monument Road, Edgbaston, Birmingham, 16, on the deposit of 10 Guineas, which will be returned on the receipt of a bona-fide Tender not subsequently withdrawn, and the return of all documents and Drawings. Cheques must be made payable to Ruthin Rural District Council.

Particulars of the proposed works can be inspected daily between 9.30 a.m. to 12.30 p.m. and 2 p.m. to 5 p.m., Monday to Friday inclusive, at the Offices of the Consulting Engineers, and at the Office of the Surveyor to the Rural District Council, Well Street Offices, Ruthin. Information concerning the Drawings and documents can only be obtained from the Consulting Engineers.

Note.—The Tenders, together with the priced Bill of Quantities enclosed separately in the proper endorsed envelopes provided for the purpose, must be sealed and delivered to the Clerk of the Council, Council Offices, Well Street, Ruthin, not later than Noon on MONDAY, 30th May, 1960. Tenders and/or documents received after that time will not be considered.

The Council do not bind themselves to accept the lowest or any Tender.

J. BUCKINGHAM,
Clerk of the Council.

Well Street Offices,
Ruthin,
Denbighshire.
April, 1960.

CONTRACTS

BOROUGH OF CAMBERWELL.

TENDERS invited from landscape gardening firms for the PROVISION and LAYOUT of the CIVILIAN WAR GRAVES MEMORIAL AND AVENUE OF REMEMBRANCE at the Honor Oak New Cemetery, Brenchley Gardens, S.E.23.
Documents available from BOROUGH ENGINEER, Town Hall, Camberwell, S.E.5.
Closing date: MONDAY, 23rd May, 1960.

CITY AND COUNTY OF NORWICH.

WATER DEPARTMENT.

CONSTRUCTION OF REINFORCED CONCRETE WATER TOWER, CAPACITY 130,000 GALLONS, AT FRAMINGHAM EARL, NORWICH.

TENDERS are invited for the ABOVE WORK. Documents can be obtained from the office of the Water Department, City Hall, Norwich (Norwich 01A), and a full set of Drawings can be inspected. Closing date for Tenders is MONDAY, 23rd May, 1960.

S. N. KELLY,
Engineer and Manager.

City Hall,
Norwich 01A.

CITY OF NORWICH.

SUPPLY OF UNIFORMS AND OVERALLS.

The Norwich Corporation invite TENDERS for the SUPPLY of—

- UNIFORMS for Domestic Helps and Ambulance Personnel.
- Further details from the MEDICAL OFFICER OF HEALTH, 68 St. Giles Street, Norwich (Norwich 22E).
- Approx. 200 suits of Blue or Khaki OVERALLS, comprising Bib-and-brace-type Trousers, and jackets.

Further details from the SENIOR PUBLIC HEALTH INSPECTOR, 69 Bethel Street, Norwich (Norwich 57E).

CITY OF PLYMOUTH.

TENDERS are invited for the SUPPLY of 6,000 lin. yd. (total quantity) of 6in., 9in. and 12in. dia. GLAZED STONWARE PIPES and 12in., 15in. and 18in. dia. CONCRETE PIPES, PRECAST CONCRETE MANHOLES and GULLY POTS, and CAST-IRON GULLY GRATINGS and FRAMES.

Full details, Form of Tender, etc., may be obtained from the City Engineer, The Guildhall, Plymouth, and Tenders are to be returned to the Town Clerk not later than 10 a.m. on SATURDAY, 21st May, 1960.

City Engineer and Surveyor.

BLACKROD URBAN DISTRICT COUNCIL.

FIRM-PRICE TENDERS are invited for either or both of the FOLLOWING CONTRACTS:

- Erection of 54 Dwellings, complete with Drainage, Part Lavatory, and Bathrooms.
- Construction of Roads and Sewers for the above development.

Bills of Quantities and Forms of Tender will be available on MONDAY, 2nd May, 1960, and may be obtained from the Clerk to the Council, Council Offices, Blackrod, upon a payment of Two Guineas for each set of documents, returnable on receipt of a bona-fide Tender not subsequently withdrawn.

The Tenders are to be returned, in the envelopes provided, to reach the undersigned not later than 12 Noon on MONDAY, 30th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

WILLIAM HULBERT,
Clerk of the Council.

26th April, 1960.

WELLINGTON (SOMERSET) RURAL DISTRICT COUNCIL.

WATER SUPPLY TO NORTHERN AND CENTRAL PARISHES.

The above Council is prepared to receive FIXED-PRICED TENDERS from contractors experienced in this class of work, for the PROVIDING and LAYING of about 21½ Miles of SPUN-IRON PIPES varying from 9in. to 3in. dia.; also the CONSTRUCTION of THREE REINFORCED CONCRETE RESERVOIRS of 600,000 gallons, 100,000 gallons and 30,000 gallons capacity, together with all ancillary work.

Copies of the Specification, Bill of Quantities and Form of Tender may be obtained from the Council's Consulting Engineers, MESSRS. HARVEY MCGILL AND HAYES, 8 Richmond Road, Exeter, on and after FRIDAY 13th May, 1960, on payment of a deposit of £5 ss. by cheque made payable to Wellington Rural District Council, which will be refunded on receipt of a bona-fide Tender, not subsequently withdrawn, and on the return of all Drawings, etc.

Sealed Tenders, accompanied by the Bill of Quantities, priced out in ink and endorsed "Water Supply to Northern and Central Parishes," but bearing no name or mark identifying the sender, are to be delivered to the undersigned not later than 10 a.m. on WEDNESDAY, 8th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender they may receive.

P. WITCHELL ORCHARD,
Clerk to the Council.

Rural Council Offices,
Wellesley Park,
Wellington, Som.
26th April, 1960.

CAERNARVONSHIRE EDUCATION COMMITTEE.

ERECTION OF A NEW RESIDENTIAL SCHOOL FOR PHYSICALLY HANDICAPPED CHILDREN AT LLANDUDNO.

Building contractors wishing to TENDER are requested to send their names to the DIRECTOR OF EDUCATION, Education Offices, Caernarvon, not later than FRIDAY, 13th May, 1960, accompanied by a deposit cheque of £2 2s., payable to the County Treasurer, returnable on receipt of a bona-fide Tender.

It is anticipated that Bills of Quantities will be available about the middle of May, 1960.

TIDESWELL AND DISTRICT EX-SERVICEMEN'S CLUB, LTD.

TENDERS are invited for the ERECTION of a NEW CLUB BUILDING at Tideswell.

Copies of Form of Tender, Specification and Plans may be obtained on payment of a deposit of £2 2s., returnable upon receipt of a bona-fide Tender, from MR. G. ROBB, F.R.I.B.A., of 160 Manchester Road, Chapel-en-le-Frith, 100,000 gallons and 30,000 gallons capacity, together with all ancillary work.

Tenders must be submitted in plain envelopes endorsed "Tender for New Club Building," to reach the undersigned not later than THURSDAY, 19th May, 1960.

A. SELLERS,
Secretary.

Sherwood Road,
Tideswell.

CONTRACTS

BOROUGH OF ELLESMERE PORT.

CONTRACT NO. 298.

33 GROUP "A" ELECTRIC STREET LAMPS—CHESTER/BIRKENHEAD TRUNK ROAD, A.41.

TENDERS are invited for the PROVISION and ERECTION of 33 CONCRETE GROUP "A" ELECTRIC STREET LAMPS complete on the ABOVE ROAD.
Contract documents obtainable from the Borough Engineer and Surveyor, Queen Street, Ellesmere Port, on the 5th MAY, 1960.

Sealed Tenders, in the plain official envelope provided, must reach the undersigned by Post by not later than 5 p.m. on THURSDAY, the 19th May, 1960. The Council do not bind themselves to accept the lowest or any Tender.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port,
Cheshire.
25th April, 1960.

CITY OF WORCESTER.

RE-ADVERTISEMENT.

TENDERS.

HILLBOROUGH—PROVISION OF ADDITIONAL SANITARY ACCOMMODATION—FEMALE BLOCK ONLY.

TENDERS are invited for this Scheme, which has been amended to provide for additional Sanitary Accommodation for the Female Block only. The work comprises One 3-storey Block with a total Floor Area of 1,113 square ft., together with other minor alterations.

Documents, obtainable from City Engineer and Surveyor, 22 Bridge Street, Worcester, on deposit of Three Guineas (cheques payable to Worcester Corporation), which will be refunded after receipt of a bona-fide Tender and the return of Tender documents.

Tenders to be Posted to the undersigned, to arrive not later than FRIDAY, 27th May, 1960.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

CITY OF PETERBOROUGH.

SUPPLY OF REFUSE COLLECTION VEHICLES.

TENDERS are invited for the SUPPLY and DELIVERY of TWO NEW DENNIS "PAXIT" MAJOR II REFUSE COLLECTION VEHICLES, and the taking in part exchange for the new vehicle of two Secondhand S. and D. Refuse Collection Vehicles.

Specification, Form of Tender and Conditions may be obtained from the City Engineer, Town Hall, Peterborough.

C. PETER CLARKE,
Town Clerk.

Town Hall,
Peterborough.
April, 1960.

CHIGWELL URBAN DISTRICT COUNCIL.

TENDERS are invited for RESURFACING FOOT-PAVES with approx. 1,200 tons of COLD ASPHALT.

Tender Form, Bill of Quantities and Specification on deposit of £2 2s. (returnable after submission of bona-fide Tender not subsequently withdrawn and return of documents) from Engineer and Surveyor (address below), at whose Office Conditions of Contract, etc., may be inspected.

Contract will provide for Fair Wages Clause and Bond.

Tenders, sealed in official envelope (provided), bearing no mark indicating sender, to CLERK OF THE COUNCIL, Old Station Road, Loughton, by 30th MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

DRONFIELD URBAN DISTRICT COUNCIL.

RIVER DRONE FLOOD RELIEF SCHEME.

TENDERS are invited for the CONSTRUCTION of WORKS on the River Drone at Dronfield. These works comprise the FOLLOWING:

- The Construction of New Culverts in Reinforced Concrete.
- The Widening and Deepening of certain stretches of the River.
- The Paving of a section of the River.
- The Cleansing of Culverts and Open Channels.

Tender documents may be obtained from the Consulting Engineers, MESSRS. HUSBAND AND CO., 358 Glossop Road, Sheffield, 10, on payment of a deposit of Two Guineas. Deposits will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders are to be delivered, in the envelope provided, to reach the undersigned not later than FRIDAY, the 20th May, 1960.

R. S. WOODHEAD,
Clerk to the Council.

Council Offices,
Minor House,
Dronfield.

WORTLEY RURAL DISTRICT COUNCIL.

SURFACE DRESSING OF ROADS, 1960.

The Council invite TENDERS for the SURFACE DRESSING of approx. 57,000 sq. yd. of ROAD.

Tender documents may be obtained from MR. ARTHUR WIKLEY, M.I.Mun.E., Engineer and Surveyor, Council Offices, Grenoside, Sheffield, at whose Office a copy of the General Conditions of Contract may be inspected.

Sealed Tenders, in the envelope provided, must be received by the undersigned by 12 Noon, SATURDAY, 21st May, 1960.

ADRIAN M. KELLY,
Clerk of the Council.

WORTLEY RURAL DISTRICT COUNCIL.

COMPLETION OF ROADS AND FOOTPATHS—LUMP LANE, GRENOSIDE—STAGE II.

The Council invite TENDERS for the COMPLETION of the ABOVE, approx. 457 super. yd. 7in. Wetmix and 2in. Tarmacadam Road; 1,648 super. yd. 3in. Broken Stone, 1in. Macadam and 1in. Asphalt Footpaths; Kerbing, Edging and Drainage Works.

Tender documents may be obtained from MR. ARTHUR WIKLEY, M.I.Mun.E., Engineer and Surveyor, Council Offices, Grenoside, Sheffield, at whose Office a copy of the General Conditions of Contract may be inspected.

Sealed Tenders, in the envelope provided, must be received by the undersigned by 12 Noon, SATURDAY, 21st May, 1960.

ADRIAN M. KELLY,
Clerk of the Council.

CONTRACTS

NOTTINGHAMSHIRE COUNTY COUNCIL.

TENDERS are invited for the SUPPLY of RAIN-COATS, with loose linings, for Ambulance Service personnel.
Further particulars and Tender documents are obtainable from the County Medical Officer, Shire Hall, Nottingham.
Completed Tenders are to be returned to the undersigned, in the envelope to be provided, by the 20th MAY, 1960.

A. R. DAVIS,
Clerk of the County Council.

County Hall,
West Bridgford,
Nottingham.

COUNTY COUNCIL OF ESSEX.

HIGHWAYS AND BRIDGES DEPARTMENT.

NEW ROAD UNDER RAILWAY BRIDGE ADJACENT TO BENFLEET STATION, BENFLEET.

TENDERS are invited from contractors who have the necessary experience and resources for the CONSTRUCTION of a CLAY RIVER WALL in Tidal Water, together with the EXTENSION to a 4in. dia. Outfall Sluice on Piles, MASS and REINFORCED CONCRETE RETAINING WALLS on Bored Piles, EXCAVATION and FILLING for the Construction of a Reinforced Concrete Carriageway under the railway, with a Pumping Station, and other ancillary works. The approx. length of new road is 660 lin. yd.

The Tender documents will be available on and after WEDNESDAY, 11th May, and application for these documents should be made to the County Surveyor, Old Court, Chelmsford, accompanied by a deposit of £5 which will be returned if a bona-fide Tender is received and not subsequently withdrawn.

Tenders, in a sealed envelope (to be provided), must be delivered to the undersigned not later than First Post, THURSDAY, 2nd June, 1960.

CHRISTIAN BERRIDGE,
Clerk of the County Council.

County Hall,
Chelmsford.

COUNTY BOROUGH OF HUDDERSFIELD.

PERMANENT REINSTATEMENT OF FOOTWAYS.

TENDERS are invited for the PERMANENT REINSTATEMENT OF FOOTWAYS within the Borough, on the basis of a Schedule of Prices.
The Schedule includes items for the Supply of all Labour and Material for Works of Reinstatement in Flagged and Tarmacadam Footways and for the Taking-up and Re-laying of Stone and Concrete Kerbs. Firms tendering are required to price all items.

It is anticipated that approx. 30,000 super. yd. of Footway will require reinstatement within the period of the Contract, which will end on 31st March, 1961.
Forms of Tender, Specification and Schedules may be obtained from A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street, Buildings, Huddersfield, on payment of a deposit of £2 7s., which will be returned on receipt of a bona-fide priced Schedule not subsequently withdrawn.

Priced Schedules are to be returned to the undersigned not later than 10 a.m. on 17th MAY, 1960, in a sealed envelope endorsed "Reinstatement of Footways" and not bearing any name or mark indicating the sender.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield,
April, 1960.

DORKING URBAN DISTRICT COUNCIL.

CAR PARKS.

Separate TENDERS are invited for the CONSTRUCTION OF CAR PARKS: (i) On land at the rear of No. 49 WEST STREET and fronting on to CHURCH STREET, the Construction is to be Hardcore and Tarmacadam, area 1,400 sq. yd.; (ii) On land in the SANDPIT, REIGATE ROAD, at the rear of the Surrey County Council Feeding Centre: the Construction is to be Stabley with a Taraspray and Chipping Surfacing (approx. area 4,000 sq. yd.).

Only contractors specialising in soil stabilisation, or with considerable experience of it, will be considered for (ii).

Tender documents can be obtained from the Engineer and Surveyor, Ploombrook, Dorking, Surrey.
Tenders are to be returned by Noon on MONDAY, 30th May, 1960.

F. G. SUTHERLAND,
Clerk of the Council.

Ploombrook,
Dorking, Surrey,
April, 1960.

THE URBAN DISTRICT COUNCIL OF KEYNSHAM.

WEST VIEW ROAD-PARK ROAD IMPROVEMENT

TENDERS are invited for the RECONSTRUCTION and SURFACING of approx. 1,540 super. yd. of CARRIAGEWAY and approx. 800 super. yd. of Asphalt Footpaths, together with approx. 260 lin. yd. of Kerbing and Channelling, and other incidental works.

Specification, Bill of Quantities and Form of Tender may be obtained upon application to the Engineer and Surveyor, Council Offices, Keynsham, Bristol, on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes endorsed "West View Road Improvement," must reach the undersigned not later than the First Post on FRIDAY, 20th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GEO. R. ASHTON,
Clerk of the Council.

Council Offices,
Keynsham,
Bristol,
27th April, 1960.

WORTLEY RURAL DISTRICT COUNCIL.

COMPLETION OF ROAD—HILLSIDE WAY, WORTLEY.

The Council invite TENDERS for the COMPLETION of the ABOVE: approx. area: 820 super. yd. 3in. Macadam Road; 290 super. yd. Flag Footpath; 264 yd. Run Concrete Kerb.

Tender documents may be obtained from MR. ARTHUR WIKLEY, M.I.Mun.E., Engineer and Surveyor, Council Offices, Grenoside, Sheffield, at whose Office a copy of the General Conditions of Contract may be inspected.

Sealed Tenders, in the envelope provided, must be received by the undersigned by 12 Noon, SATURDAY, 21st May, 1960.

ADRIAN M. KELLY,
Clerk of the Council.

Council Offices,
Grenoside,
Sheffield,
21st May, 1960.

CONTRACTS

MONTGOMERYSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

ROAD SURFACE DRESSING.

TENDERS are invited for the APPLICATION of approx. 185,000 gallons of HOT TAR-BITUMEN COMPOUND for SURFACE DRESSING CARRIAGEWAYS at various sites throughout the County.

Specification, Form of Tender and Schedule of Sites may be obtained on application to the undersigned.
Tenders, sealed and endorsed "Surface Dressing," to be delivered to the County Clerk's Office, Welshpool, by the First Post on TUESDAY, 17th May, 1960.

The Council does not bind itself to accept the lowest or any Tender, and reserves the right to apportion the work to more than one contractor.

MEURIG I. DAVIES,
County Surveyor.

County Surveyor's Department,
County Offices,
Welshpool,
27th April, 1960.

NORFOLK COUNTY COUNCIL.

HIGHWAYS DEPARTMENT.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING:

7,500 lin. yd. Run of Timber Fencing, consisting of Split Chestnut Posts mortised to take four round larch rails to site at Scotrow, Norfolk.

Full details are contained in the Form of Tender obtainable on application to the undersigned.
Completed Tenders must be submitted to the Clerk of the Council, County Offices, Thorne Road, Norwich, by not later than Noon on WEDNESDAY, 18th May, 1960.

COUNTY SURVEYOR.

County Offices,
Thorne Road,
Norwich, Norfolk. NOR 47A.

COUNTY BOROUGH OF IPSWICH.

IMPROVED STREET LIGHTING, 1960/61.

TENDERS are invited for the ERECTION of approx. 110 GROUP of STEEL and CONCRETE STREET LIGHTING COLUMNS and the PROVISION and ERECTION of a similar quantity of 140-W and 85-W SODIUM DISCHARGE LANTERNS, with Lamps and Control Gear. The Contract will include the Provision of a further quantity of approx. 10 Sodium Discharge Lanterns with the Control Gear housed within the canopy.

Specification and Bill of Quantities may be obtained, and Conditions of Contract and Layout Drawings inspected, at the Office of the Borough Engineer and Surveyor, 19 Town Clerk, Street, on payment of £1 1s. deposit, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in plain sealed envelopes bearing the words "Improved Street Lighting, 1960/61," but with no name or mark to indicate the sender, must be received by the undersigned not later than Noon on the 23rd MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.

BOROUGH OF STOCKTON-ON-TEES.

ASPHALT SURFACING, 1960/61.

TENDERS are invited for SUPPLYING and LAYING approx. 15,000 sq. yd. of 3in. TWO-COAT and 14,000 sq. yd. of 1in. and 2in. SINGLE-COAT ASPHALT on VARIOUS SITES in the Borough.

Tender documents may be obtained from the Borough Engineer, Victoria Buildings, High Street, Stockton-on-Tees, on payment of a £2 2s. deposit, which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be returned to the undersigned, in the official envelopes provided, by not later than 12 Noon on MONDAY, 23rd May, 1960.

JOHN B. HAWORTH,
Town Clerk.

Barclays Bank Chambers,
High Street,
Stockton-on-Tees.

BOROUGH OF LOWESTOFT.

HIGHWAYS ACT, 1959.

MAKING-UP AND SEWERING BISHOPS WALK (PART) AND THE MEADS.

TENDERS are invited for the ABOVE WORK, comprising the FOLLOWING:

Making-up of approx. 1,200 super. yd. of Hardcore and Gravel Asphalt Carriageway, together with Concrete Flag Paving, Kerb, and Concrete Channel, and other ancillary works.

Drawings and Conditions of Contract will be available for inspection at the Borough Engineer's Office, 44 High Street, Lowestoft, and Form of Tender, Specification and Bills of Quantities can be obtained from the Borough Engineer upon payment of a deposit of Two Guineas, which will be refunded upon the receipt of a bona-fide Tender, not subsequently withdrawn.

Tenders must be delivered to the undersigned not later than 12 Noon on FRIDAY, 20th May, 1960. No Tender will be accepted unless in a sealed envelope endorsed "Tender—Making-up Bishops Walk (Part) and The Meads, Lowestoft," and bearing no mark or writing by which the tenderer can be identified.

The Council do not bind themselves to accept the lowest or any Tender.

F. B. NUNNEY,
Town Clerk.

Town Hall,
Lowestoft,
26th April, 1960.

PENGE URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and INSTALLATION of the whole of the FOLLOWING:

One Solid Fuel Cast-iron Sectional Hot Water Boiler rated at approx. 650,000 B.Th.U. Thr.

One Hooper type Underfeed Automatic Stoker to fire the above Boiler, together with Pilework Adjustments, and ancillary works and materials.

Tenders for individual items will not be accepted. Tender documents may be obtained from the Engineer and Surveyor on payment of a deposit of Five Guineas, returnable if a bona-fide Tender is received which is not subsequently withdrawn.

Tenders, in plain sealed envelopes, are to be returned to the undersigned by Noon on the 27th MAY, 1960.

PERCY L. BUNTING,
Clerk of the Council.

Town Hall,
Annerley Road,
S.E.20.

CONTRACTS

SOMERSET COUNTY COUNCIL.

EDUCATION COMMITTEE.

Applications are invited from building contractors wishing to submit a FIXED-PRICE TENDER for PROPOSED ALTERATIONS and EXTENSIONS at ANSFORD SECONDARY MODERN SCHOOL.

Applications should be submitted to the undersigned not later than MONDAY, 16th May, 1960, and should contain an assurance that the applicant has the necessary financial and material resources and organisation to undertake the work.

The Committee reserves the right to select from the applicants a list of firms who will be invited to submit Tenders, and does not bind itself to accept the lowest or any Tender.

A deposit of £2 2s. will be required from those firms selected, which will be returned upon receipt of a bona-fide Tender or the return of the Bill of Quantities.

No Tender will be considered unless submitted in the endorsed envelope which will be provided.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

The Crescent,
Taunton.

BOROUGH OF PORT TALBOT.

TRADITIONAL HOUSING PROGRAMME.

THE CORPORATION invites TENDERS for the ERECTION OF 54 MAISONNETTES in Seven Blocks of Six Dwellings at HARRY SITE, SANDFIELDS, ABERAVON.

Plans and Specification can be obtained from MR. G. V. GRIFFITHS, A.M.I.C.E., Borough Engineer, Municipal Buildings, Port Talbot, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

The contractor whose Tender is accepted will be required to enter into a Bond of Security with a Bank, Insurance Company, or other form of surety approved by the Corporation.

Tenders, sealed and endorsed "54 Maisonnettes—Harry Site," are to be delivered to the undersigned not later than 12 Noon, 23rd MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot,
28th April, 1960.

BOROUGH OF PORT TALBOT.

TRADITIONAL HOUSING PROGRAMME.

THE CORPORATION invites TENDERS for the ERECTION OF 36 DWELLINGS consisting of 18 Three-bedroom pairs of Houses and 18 Maisonnettes in Three Blocks of Six at the FAIRFIELD, ABERAVON, Port Talbot.

Plans and Specification can be obtained from MR. G. V. GRIFFITHS, A.M.I.C.E., Borough Engineer, Municipal Buildings, Port Talbot, on payment of a deposit of £2 2s., which will be returned on receipt of a bona-fide Tender not subsequently withdrawn.

The contractor whose Tender is accepted will be required to enter into a Bond of Security with a Bank or Insurance Company.

Tenders, sealed and endorsed "36 Dwellings—Fairfield," are to be forwarded to the undersigned not later than 12 Noon, MONDAY, 23rd May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. KING DAVIES,
Town Clerk.

Municipal Buildings,
Port Talbot,
28th April, 1960.

BOROUGH OF LAUNCESTON.

SEWERAGE AND SEWAGE DISPOSAL.

FIXED-PRICE TENDERS are invited from experienced public works contractors for the CONSTRUCTION of about 250 yd. of 15in. CONCRETE and CAST-IRON SEWER, an INLET CHANNEL and SCREENING CHAMBER, TWO SETTLEMENT TANKS, TWO CIRCULAR FILTERS, TWO HUMUS TANKS, TWO STORMWATER TANKS, and a SLUDGE PUMPING STATION, together with various ancillary works and Pipelines, at the SEWAGE DISPOSAL WORKS, near Launceston, North Cornwall.

The Conditions of Contract, Specification, Bills of Quantities and Forms of Tender may be obtained from MESSRS LEMON AND BLIZARD, 1 Glenside, Colles Avenue, Mannamead, Plymouth, on and after MONDAY, 16th May, 1960, on payment of a deposit of £7 7s., which will be refunded upon the receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents and Drawings. Cheques should be made payable to the Launceston Borough Council.

Tenders on the form provided, together with a fully priced Bill of Quantities, are to be delivered to the Town Clerk, in a plain sealed envelope endorsed "Sewerage and Sewage Disposal (Stage 2)," not later than Noon on SATURDAY, 11th June, 1960.

The Council does not bind itself to accept the lowest or any Tender, and no payment will be made for any Tender submitted.

C. W. PARSONS,
Town Clerk.

Municipal Offices,
Western Road,
Launceston,
Cornwall.

CITY OF MANCHESTER.

TENDERS invited for ALTERATIONS to SCHOOL MFALS KITCHEN at CRUMPSALL OPEN-AIR SCHOOL.

Specification and Drawings from CITY ARCHITECT, P.O. Box 489, Town Hall.
Tenders returnable by 25th MAY.

LOFTUS URBAN DISTRICT COUNCIL.

EASINGTON PARK ESTATE.

TWO SHOPS AND TWO DORMER TYPE HOUSES.

TENDERS are invited for the ERECTION of the ABOVE-MENTIONED.

Conditions of Contract and Bills of Quantities may be obtained from the Architect, 41 Baxtergate, Whitby, Yorks. A deposit of Three Guineas is required (returned on receipt of Tender).

Tenders must be submitted to me, in plain sealed envelopes, without any mark indicating the sender, and the words "Tender—Easington Park—Two Shops and Two Dormer Type Houses," not later than Noon, 16th MAY, 1960.

The Council does not bind itself to accept any Tender.

T. C. ELLISON,
Clerk of the Council.

The Council House,
Loftus,
Saltburn, Yorks.

CONTRACTS

BOROUGH OF MAIDENHEAD.**PRIVATE STREET WORKS—SPERLING ROAD.**

The COUNCIL invites TENDERS for the MAKING UP of the ABOVE ROAD (approx. 120yd. long), comprising Surface Water Drainage; Hardcore Foundation; Tarmacadam Base Course and Bituminous Macadam Wearing Course to the Carriageway; Provision and Laying of Precast Concrete Kerb and Scuriae Block Channel; Precast Concrete Flag Paving and Bituminous Macadam Verges to Footways; Erection of Lighting Columns, and all incidental works.

Drawings may be seen at, and Tender documents obtained from, the Office of the Borough Engineer and Surveyor, 14 Craufurd Rise, on payment of a deposit of Two Pounds (£2), which will be refunded upon receipt of a bona-fide Tender and the return of all documents.

Tenders, in plain sealed envelopes endorsed "Private Street Works—Sperling Road," and bearing no mark or indication of the sender, must be delivered to me not later than Noon on FRIDAY, 27th May, 1960.

The Council does not bind itself to accept the lowest or any other Tender.

STANLEY PLATT,
Town Clerk.

Guildhall,
Maidenhead.
April, 1960.

BOROUGH OF MORECAMBE AND HEYSHAM.**CONSTRUCTION OF LANDING STAGE.**

TENDERS are invited for the CONSTRUCTION of a TIMBER LANDING STAGE, together with Accommodation Works, adjoining the Town Hall Slipway. Drawings may be inspected at, and Specification, Bills of Quantities and Form of Tender obtained from, the Office of the Borough Engineer and Surveyor, Town Hall, Morecambe and Heysham, on payment of a deposit of £2. The deposit will be refunded on receipt of a bona-fide Tender.

Tenders, in the envelope provided, must reach the undersigned not later than 10 a.m. on WEDNESDAY, 1st June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

ROGER ROSE,
Town Clerk.

28th April, 1960.

BOROUGH OF POOLE.**CONTRACT NO. 6—
CANFORD AND MERLEY SEWERAGE.**

TENDERS are invited for the CONSTRUCTION of a SEWERAGE SYSTEM at CANFORD AND MERLEY, Poole, Dorset, consisting of—

- (1) About 8,000 lin. yd. of Sewers from 4in. to 12in. dia., ancillary works including a Railway Crossing.
- (2) Three Pumping Stations and 900 lin. yd. of 4in. to 8in. dia. C.I. Pumping Mains, including a Crossing of the River Stour.

Tender documents from the Consulting Engineers, J. D. AND D. M. WATSON, M.M.I.C.E., 67 Tufton Street, Westminster, S.W.1. Deposit 10 Guineas; cheques should be crossed and made payable to the Poole Corporation, and will be returned on receipt of a bona-fide Tender and return of all documents. Tenders to me, endorsed "Tender for Canford and Merley Sewerage," by 14th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. G. HILLIER,
Town Clerk.

April, 1960.

BOROUGH OF ROWLEY REGIS.**SURFACE DRESSING.**

TENDERS are invited for the SURFACE DRESSING of CARRIAGEWAYS, having a total area of approx. 111,155 sq. yd.

Specifications and Form of Tender may be obtained from the Borough Engineer and Surveyor, Municipal Buildings, Old Hill, Staffs., upon the deposit of £2 2s., which will be returned on receipt of a bona-fide Tender, not afterwards withdrawn.

Tenders must be delivered to the Town Clerk, in the envelope provided, not later than 12 Noon on MONDAY, 16th May, 1960.

JOHN HILTON,
Town Clerk.

Municipal Buildings,
Old Hill,
Staffs.

CITY OF LEICESTER.**PUBLIC CLEANSING DEPARTMENT.****SUPPLY OF TRACTOR SHOVEL.**

TENDERS are invited for the SUPPLY of a DIESEL CRAWLER TRACTOR SHOVEL incorporating the following features: Engine horse-power, approx. 55; Bucket capacity, 1 cu. yd.; extra large air cleaner; heavy-duty track roller guards; windscreen wipers (and washers if available); lights front and rear for working purposes; fitted with all-weather cab; fitted with winch suitable for operating 3 to 4 cu. yd. Onions Rope Scraper.

Tenders, with complete maker's specification, to the Director of Public Cleansing, Jarvis Street, Leicester, in plain sealed envelopes endorsed "Tractor Shovel," must be received not later than First Post, SATURDAY, 21st May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

COLIN CLEGG.

Jarvis Street,
Leicester.

LETCHWORTH URBAN DISTRICT COUNCIL.**STREET LIGHTING IMPROVEMENTS, 1960/61.**

TENDERS are invited from experienced contractors for the REMOVAL of 46 EXISTING STEEL and CONCRETE COLUMNS, and the ERECTION of 33 GROUP "A" and 96 GROUP "B" CONCRETE COLUMNS, together with the INSTALLATION of LANTERNS, GEAR, etc. Columns, Lanterns, Gear, etc., will be supplied under a separate Contract.

Documents may be obtained from E. L. JOHNSON, M.I.Mun.E., Engineer and Surveyor, The Council House, Letchworth, Herts., on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender.

Tenders are to be received, in the envelope provided, by Noon, 20th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

H. PLINSTON,
Clerk of the Council.

The Council House,
Letchworth, Herts.
27th April, 1960.

CONTRACTS

COUNTY BOROUGH OF SOUTHPORT.

TENDERS are invited for the SUPPLY of POLICE UNIFORM CLOTHING, including Waterproof Clothing, Caps and Helmets, Gloves, Shirts, Collars and Ties. Particulars and Forms of Tenders can be obtained from the Chief Constable, Police Headquarters, Southport.

Closing date for Tenders—THURSDAY, 2nd June, 1960.

R. EDGAR PERRINS,
Town Clerk.

BOROUGH OF LYTHAM ST. ANNES.**STREET LIGHTING.**

TENDERS are invited for the SUPPLY, ERECTION and WIRING of 87 GROUP "A" and 44 GROUP "B" STANTON CONCRETE LIGHTING COLUMNS, complete with Control Gear, and the DISMANTLING and REMOVAL of 113 existing STEEL and CAST-IRON COLUMNS.

The Specification and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Lytham St. Annes, at whose Office the General Conditions of Contract may be inspected. Tenders, in plain sealed envelopes endorsed "Street Lighting," must be delivered to the undersigned not later than 10 a.m., TUESDAY, 31st May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. A. CORK,
Town Clerk.

Town Hall,
Lytham St. Annes.

BOROUGH OF NUNEATON.**WOOD FARM HOUSING ESTATE.**

TENDERS are invited for the CONSTRUCTION of about 3,800 sq. yd. of REINFORCED CONCRETE CARRIAGEWAY and 600 lin. yd. of FOUL and STORM WATER SEWERS on this site.

Applications for Tender documents should be made to Borough Surveyor, Council House, Nuneaton, accompanied by a deposit of £2 2s., returnable on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders to be delivered to the undersigned not later than 10 a.m., MONDAY, 30th May, 1960.

The Council do not bind itself to accept the lowest or any Tender.

A. A. CRABTREE,
Town Clerk.

Council House,
Nuneaton.
May, 1960.

CITY OF BIRMINGHAM.**TO BUILDING CONTRACTORS.**

CONTRACT 715—14 ONE- AND TWO-STOREY DWELLINGS—WOODCOCK LANE, NORTHFIELD.

CONTRACT 730 (O-R)—50 ONE- AND TWO-STOREY DWELLINGS—KINGS HEATH AREA.

The HOUSEBUILDING COMMITTEE invite FIRM-PRICE TENDERS for the ERECTION of the ABOVE. Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each Contract at the Office of A. G. SHEPARD FIDLER, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 10th MAY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona-fide Tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of Tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, not later than 12 Noon on FRIDAY, 10th June, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any Tender.

T. H. PARKINSON,
Town Clerk.

Council House,
Birmingham, 1.

PENGE URBAN DISTRICT COUNCIL.

TENDERS are invited for the BURNING OFF of approx. 488 sq. yd. of SURFACING and the LAYING of 560 sq. yd. of HOT ROLLED ASPHALT.

Forms of Tender and details may be obtained from the Engineer and Surveyor upon payment of a deposit of Two Guineas, returnable providing a bona-fide Tender is received and not subsequently withdrawn. Tenders to be returned to the undersigned, in a plain sealed envelope, not later than Noon on the 30th MAY, 1960.

PERCY I. BUNTING,
Clerk of the Council.

Town Hall,
Anerley Road,
S.E.20.

GLENDALE RURAL DISTRICT COUNCIL.**REGIONAL WATER SCHEME.****CONTRACT NO. 7.**

TENDERS are invited from competent contractors for the FOLLOWING WORK situated in the north of the district—

- (1) The Laying of approx. 5½ miles of 6in. dia. Spun-Iron Pipes with ancillary works between Ford and Lowick.
- (2) The Construction of a 60,000-gallon Reinforced Concrete Service Reservoir at Watchlaw.
- (3) The Construction of a Booster Station at Ford Village.

Forms of Tender, Specification and Bills of Quantities may be obtained from the Council's Consulting Engineers, Messrs. WATERHOUSE AND ROUNTHWAITE, 165 Westmorland Road, Newcastle upon Tyne, 4, on payment of a deposit of £5 5s., which sum will be refunded on receipt of a bona-fide Tender. Conditions of Contract and Drawings may be seen at the above Office and at the Council Offices, Wooler, Northumberland, during normal office hours.

Tenders, in plain sealed envelopes, endorsed "Regional Water Scheme—Contract No. 7," but which must not bear any name or mark indicating the sender, must be delivered at my Office not later than 12 Noon on the 24th MAY, 1960.

The Council do not bind itself to accept the lowest or any Tender.

B. STEPHENSON STANTON,
Clerk of the Council.

Council Offices,
Wooler,
Northumberland.
4th May, 1960.

CONTRACTS

COUNTY BOROUGH OF IPSWICH.**BITUMEN MACADAM SURFACING, 1960-61.**

TENDERS are invited for the SUPPLY, DELIVERY and LAYING of approx. 5,800 sq. yd. of 1½-in. BITUMEN MACADAM SURFACING, together with a quantity of BALANCING MATERIAL.

Copies of Specification, Form of Tender and Bill of Quantities, etc., can be obtained from the Borough Engineer and Surveyor, 19 Tower Street, Ipswich. Tenders, in plain sealed envelopes, bearing the words "Tender for Bitumen Macadam Surfacing," but with no name or mark to indicate the sender, must be received by me not later than First Post on the 23rd MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

J. C. NELSON,
Town Clerk.

Town Hall,
Ipswich.

CITY OF SALFORD.**IRWELL STREET ROAD WIDENING.****DEMOLITION OF PROPERTY.**

TENDERS are invited for the DEMOLITION of the FOLLOWING PROPERTIES—

251/255 Chapel Street, Salford, 3.

3/7 Irwell Street, Salford, 3.

Plan and Specification may be seen at and Form of Tender obtained from the City Engineer and Surveyor, Town Hall, Salford, 3, to whom it should be returned on or before Noon, WEDNESDAY, 11th May, 1960.

R. RIBBLEDAL THORNTON,
Town Clerk.

CRAWLEY URBAN DISTRICT COUNCIL.**PRIVATE STREET WORKS—
COBBLES CRESCENT, NORTHGATE, CRAWLEY.**

The Council propose to invite TENDERS for the MAKING-UP of the ABOVE ROAD, and are preparing a list of selected contractors who will be invited to submit Tenders. The work will include approx. 2,580 sq. yd. of Reinforced Concrete Roadworks, Footpaths and Garage Crossings, Site Clearance, Drainage and ancillary works.

Contractors who wish to be considered for inclusion in the selected list should send their names (with details of similar work carried out in recent years) to me by not later than 13th MAY, 1960. Contractors will be selected, and the Council may add others.

R. W. J. TRIDGELL,
Clerk of the Council.

Robinson House,
Robinson Road,
Crawley, Sussex.

URBAN DISTRICT COUNCIL OF FILEY.**PRIMROSE VALLEY SEWERAGE SCHEME.**

TENDERS are invited for the EXECUTION of WORKS of SEWERAGE, comprising—

The Provision and Laying of approx. 1,300 yd. of 4in., 6in. and 9in. Sewers, and the Construction of a Pumping Station and an Ejector Station.

Plans, Specifications and further details may be obtained from the Acting Surveyor, Council Offices, Filey.

The commencement of the works will not be before mid-September, 1960.

Tenders, in plain sealed envelopes, endorsed "Primrose Valley Sewerage Scheme," should reach the undersigned not later than 4 p.m. on TUESDAY, 31st May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

K. HENDERSON,
Clerk of the Council.

Council Offices,
Filey.

CANNOCK URBAN DISTRICT COUNCIL.**TARSPrAYING OF CARRIAGEWAYS, 1960.**

TENDERS are invited for the SPRAYING ON CARRIAGEWAYS within the Urban District of an approx. quantity of 20,000 gallons of TAR plus 10 per cent. BITUMEN during July, 1960.

Tender Forms and Specification can be obtained from MR. E. LOMAX, A.M.I.C.E., M.I.Mun.E., Engineer and Surveyor, Council House, Cannock, on payment of Two Guineas, refundable on receipt of a bona-fide Tender.

Tenders, in plain sealed envelopes endorsed "Tarspraying, 1960," must be at my Office by not later than First Post on FRIDAY, the 20th May, 1960.

The Council does not bind itself to accept the lowest or any Tender.

H. C. ALLEN,
Clerk of the Council.

Council House,
The Green,
Cannock.
27th April, 1960.

STROUD RURAL DISTRICT COUNCIL.**BRIDGEND SEWERAGE SCHEME.**

TENDERS are invited from civil engineering contractors having experience in similar works for the LAYING OF SEWERS and CONSTRUCTION of MANHOLES in accordance with the Drawings, Specification and Bill of Quantities prepared by the Council's Consulting Engineers.

The works will comprise the following—
Approx. 250 lin. yd. of 9in. dia. Sewers.
Approx. 850 lin. yd. of 6in. dia. Sewers.
Approx. 17 Precast Concrete Manholes.
Pumping Station and Rising Main, together with ancillary works.

Applications for tendering documents should be addressed to Messrs. W. HERBERT BATEMAN AND PARTNERS, Chesterfield House, Bathaston, Bath, and must be accompanied by a deposit cheque for Five Guineas, made payable to the Council, which cheque will be returned upon receipt of a bona-fide Tender, not subsequently withdrawn. The names and addresses of at least two engineers under whose direction similar works have been carried out by the applicant must also be submitted.

Sealed Tenders, on the form provided, and endorsed "Bridgend Sewerage," accompanied by the Bill of Quantities, fully priced in ink, and enclosed in plain sealed envelope, must be posted to reach the undersigned not later than First Post on 18th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender, and will not be responsible for any expenses incurred by those tendering.

G. E. G. GADSDEN,
Clerk to the Council.

Council Offices,
John Street,
Stroud, Glos.

CONTRACTS

BOROUGH OF BUXTON.
SURFACE DRESSING.

TENDERS are invited for the SUPPLYING and LAYING OF BINDER ONLY for Surface Dressing of approx. 40,000 sq. yd. of District Roads within the Borough.

Tender documents are available from the Borough Engineer, Town Hall, Buxton.
Tenders, in plain sealed envelopes endorsed "Tender for Surface Dressing Binder," to be returned to the undersigned not later than Noon on 16th MAY, 1960.
The Council does not bind itself to accept the lowest or any Tender.

A. C. W. RYLAND,
Borough Engineer.

Borough Engineer's Office,
Town Hall,
Buxton.
29th April, 1960.

BOROUGH OF ABINGDON.
EXTENSIONS TO CENTRAL WORKS AND HIGHWAYS DEPOT.

The COUNCIL intends to CARRY OUT CONSIDERABLE WORKS OF IMPROVEMENT AND EXTENSION to the existing HIGHWAY DEPOT BUILDING and COMPOUND IN WOOTTON ROAD, and contractors should further details with a view to submitting a PRICE should apply for tender documents to the Council's Architect for this work (Messrs. WEST AND PRITCHARD, of Bridge Street, Abingdon, Berks.) by not later than 9th MAY, 1960.

Tenders, which will only be accepted and considered if submitted in the plain sealed envelopes to be provided, must be returned to the undersigned by First Post on 16th JUNE, 1960.

The Council does not bind itself to accept the lowest or any Tender.

E. W. J. NICHOLSON,
Town Clerk.

Municipal Offices,
The Abbey House,
Abingdon, Berks.
27th April, 1960.

BOROUGH OF ELLESMERE PORT.
NEW PUBLIC LIBRARY.

TENDERS are invited from building contractors for the ERECTION AND COMPLETION of a PUBLIC LIBRARY at the new Civic Centre.

Tender documents, consisting of Bills of Quantities, Form of Tender, etc., will be available for dispatch on 1st JUNE, 1960, and applications for such documents should be made to the Council's Architects, MESSRS. GORNALL, KELLY AND PARTNERS, 155 The Albany, Old Hall Street, Liverpool, accompanied by a deposit of Five Guineas in the form of a cheque made payable to the Ellesmere Port Borough Council. Deposits are returnable on the return of the Tender documents, with or without a bona-fide Tender, or, in the case of a Tender which is accepted and not subsequently withdrawn, on completion of a formal Contract between the Council and the successful tenderer.

Applicants for Tender documents may be required to furnish evidence of their previous experience in connection with the erection of buildings of similar size and character.

Tenders must be received by the undersigned by Noon on FRIDAY, 24th JUNE, 1960, properly sealed in the envelope which will be provided with the Tender documents, otherwise they will not be considered by the Council.

R. J. BERNIE,
Town Clerk.

Municipal Offices,
Ellesmere Port,
2nd May, 1960.

CITY OF PORTSMOUTH.
TENDERS FOR THE LAYOUT OF PLAYING FIELDS AND HORTICULTURAL WORKS AT COURT LAKE MODERN SCHOOL, GROVE ROAD, DRAYTON, PORTSMOUTH.

Applications are invited from approved sports contractors for the LAYOUT of the ABOVE PLAYING FIELDS.

All necessary Plans, Specification and Schedule of Conditions of Contract may be obtained from the Director of Parks, Alexandra Park, Portsmouth.

Tenders should reach the undersigned not later than Noon, 1st JUNE, 1960, in a sealed envelope marked "Tender for Grove Road School Playing Fields," in the top left-hand corner.

V. BLANCHARD,
Town Clerk.

Guildhall,
Portsmouth.

NEWTOWN AND LLANLWCHAIARN
URBAN DISTRICT COUNCIL.

NEWTOWN SMITHFIELD.

NEW SALE RING AND EXTENSIONS.

WITH REFERENCE to the Council's advertisement in this paper dated 24th MARCH, 1960, contractors are asked to note that the date for the receipt of Tenders in respect of this Scheme has been extended to 21st MAY, 1960.

NORMAN MORRIS,
Clerk and Chief Financial Officer.

Town Hall,
Newtown.
28th April, 1960.

CUCKFIELD RURAL DISTRICT COUNCIL.

CONTRACT NO. 147.

ARDINGLY SEWAGE DISPOSAL WORKS.

TENDERS are invited for the CONSTRUCTION of a SEDIMENTATION TANK, TWO FILTER BEDS, SAND FILTER, PUMPING STATION, SLUDGE DRYING BEDS, STORMWATER and other TANKS at Ardingly, Sussex.

Specification, Bills of Quantities and Form of Tender can be obtained from, and the Drawings inspected at, the Office of MR. A. HUTCHINGS, M.B.E., M.I.Mun.E., F.R.S.H., Engineer and Surveyor, on payment of a deposit of Two Guineas, which will be refunded on receipt of a bona-fide Tender, together with all documents.

Tenders, accompanied by all documents, enclosed in a plain envelope, sealed and endorsed "Tender for Sewage Works," should be addressed and delivered to the undersigned not later than Noon on MONDAY, 6th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

J. A. CHURCHILL,
Clerk of the Council.

Rural District Council Offices,
Bolton Road,
Haywards Heath,
Sussex.

CONTRACTS

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

LIVERPOOL-LEEDS-HULL TRUNK ROAD, A.63.

IMPROVEMENT BETWEEN FERRIBY BY-PASS AND HEADS LANE, HESSLE.

TENDERS are invited for the CONSTRUCTION of approx. 1,000 yd. of SINGLE CARRIAGEWAY and the CONVERSION of approx. 600 yd. of existing ROAD to DUAL CARRIAGEWAY.

The works include Fencing, Drainage, Kerbing, Carriageway Construction and Surfacing.
Forms and Conditions of Tender, Conditions of Contract, Specification and Bill of Quantities may be obtained from the County Surveyor, County Hall, Beverley, on payment of a deposit of Two Pounds, which will be returned to any unsuccessful bona-fide tenderer who returns all documents supplied and whose Tender is not withdrawn. The deposit will be returned to the successful tenderer on completion of the Contract documents. Cheques, etc., to be made payable to the East Riding County Council.

Drawings and other relevant details may be examined at the Trunk Roads Office of the County Surveyor, Westminster Bank Chambers, Laigate, Beverley, at any time during customary office hours.

Tenders, in a plain sealed envelope, which will be provided by the Council, endorsed "Tender for Road Improvement—Ferryby By-pass to Heads Lane," and bearing no mark indicating the tender, are to be delivered to the undersigned not later than 4 p.m. on MONDAY, 23rd MAY, 1960.

THOMAS STEPHENSON,
Clerk of the County Council.

County Hall,
Beverley,
Yorkshire.
28th April, 1960.

COUNTY BOROUGH OF SMETHWICK.

CRANFORD STREET RECONSTRUCTION AND SURFACE WATER SEWER.

The CORPORATION invites TENDERS for the ABOVE WORKS, which entail the Construction of a new Surface Water Sewer of approx. 370 lin. yd., varying from 24 in. to 36 in. dia., and the Construction of a Reinforced Concrete Silt Chamber. The existing Road will be reconstructed and the works will entail the Laying of approx. 1,295 super. yd. of Lean Mix Asphalt 8 in. thick, 3,175 super. yd. of Hot Rolled Asphalt 1 1/2 in. thick, 600 lin. yd. of Concrete Kerbs, and 2,070 super. yd. of concrete Paving Slabs.

Bills of Quantities, Specification and Form of Tender may be obtained on written application to the Borough Engineer and Surveyor, Council House, Smethwick, accompanied by a crossed cheque for £2 2s., made payable to the Borough Treasurer, Smethwick. This amount will be refunded upon receipt of a bona-fide Tender.

Drawings and Conditions of Contract may be seen at the Borough Engineer's Department (Engineers), at 277 High Street, Smethwick.

Sealed Tenders, endorsed "Cranford Street Reconstruction," must be delivered to the Borough Engineer and Surveyor not later than 30th MAY 1960.

E. L. TWY-CROSS,
Town Clerk.

BOROUGH OF HORNSEY.

TENDERS are invited for the SUPPLY of GAS OIL, FUEL OIL and PARAFFIN from firms obtaining supplies from refineries in the United Kingdom for the year commencing 1st JUNE 1960. Further details from the Borough Engineer and Surveyor, Town Hall, The Broadway, Crouch End, N.8.

W. B. MURGATROYD,
Town Clerk.

BOROUGH OF ILFORD.

ERECTION OF 12 GARAGES IN WENSLEYDALE AVENUE.

The CORPORATION invites TENDERS for THESE WORKS.

Conditions of Contract may be inspected upon application to the Borough Engineer, Town Hall, Ilford, from whom the Specification and Drawings and Form of Tender may be obtained upon payment of a deposit of Two Guineas, which is returnable upon receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, sealed in an envelope which will be provided, but bearing no name or mark indicating the tender, must be delivered to the TOWN CLERK, Town Hall, Ilford, not later than 4 p.m. on the 1st JUNE, 1960.

BOROUGH OF DUNSTABLE.

IMPROVEMENT OF GROUP "A" STREET LIGHTING.

A.5 LONDON TO HOLYHEAD TRUNK ROAD.

TENDERS are invited, on a Fixed-price Basis, for the SUPPLY, ERECTION AND BRINGING INTO SERVICE of a SYSTEM of 126 SODIUM and FLUORESCENT LIGHTING UNITS on STEEL COLUMNS, and for the REMOVAL and DISMANTLING of 80 existing MERCURY VAPOUR UNITS.

Tender documents may be obtained from, and Drawings seen at, the Offices of the Borough Engineer, Municipal Offices, Dunstable, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona-fide Tender not subsequently withdrawn.

Tenders must be delivered to the undersigned not later than 12 Noon on MONDAY, the 23rd MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

JACK SMITH,
Town Clerk.

Municipal Offices,
Dunstable, Beds.
30th April, 1960.

NEWCASTLE UPON TYNE EDUCATION COMMITTEE.

HILLSVIEW PRIMARY SCHOOL—CARETAKER'S HOUSE.

TENDERS are invited for the ERECTION of a CARETAKER'S HOUSE at Hillsview Primary School, Carsdale Road, Newcastle upon Tyne, 3.

Firms desiring to tender should apply for Tender documents as soon as possible, enclosing a cheque for Five Guineas made payable to the Newcastle upon Tyne Education Committee (returnable on receipt of a bona-fide Tender). Last date for the receipt of Tenders is WEDNESDAY, 25th MAY, 1960.

No Tender will be considered which is not submitted in the official envelope provided, which must not bear any name or mark to indicate the sender. The Education Committee do not bind themselves to accept the lowest or any Tender.

H. V. LIGHTFOOT,
Director of Education.

City Education Office,
Northumberland Road,
Newcastle upon Tyne, 1.

CONTRACTS

COUNTY BOROUGH OF MIDDLESBROUGH.

ANNUAL TENDERS FOR THE SUPPLY OF MATERIALS AND SERVICES.

TENDERS are invited for the FOLLOWING for the period 1st July, 1960, to 30th June, 1961:—

Tender

- No. (1) Coated Macadam, Fine Cold Asphalt and Special Carpets.
- (2) Hot Process Rolled Asphalt—Supplying and Laying (B.S.594).
- (3) Cement (Bagged and Bulk).
- (4) Broken Stone and Chippings (Igneous).
- (5) Sand and Gravel.
- (6) Broken Slag and Penning.
- (7) Concrete Kerbs, Flags, Quadrants, etc.
- (8) Concrete Fencing and Clothes Posts.
- (9) C.I. Manhole Covers and Gully Grates.
- (10) Salt Glazed Pipes.
- (11) Lead Pipe and Sheet, Solder.
- (12) Plaster Carlite, Plasterboard, Paramount Cellular Partition, Building and Plastering Limes.

- (13) Nails, Screws, Nuts and Bolts.
- (14) Street Lighting Gas Mantles.
- (15) C.I. Rainwater and Soil Goods.
- (16) Slates.
- (17) Qualis, Firebricks and Fire Cement.
- (18) Domestic M.S. Back Boilers and Firebottoms.
- (19) Chimney Pots and Glazed Tiles.
- (20) Copper Tube.
- (21) V.E. Metal Draining Boards.
- (22) Sanitary Ware—Lavatory Basins, Sinks and W.C. Pedestals.
- (23) W.C. Seats—Plastic and Timber.
- (24) Paint, Putty and Distemper.
- (25) Decorators' Brushes.
- (26) Glass—Sheet.
- (27) Electric Lamps.
- (28) Galvanised Hollowware—Dustbins, Gas Boilers and Buckets.

Particulars and Forms of Tender from Borough Engineer, Municipal Buildings, Middlesbrough. Tenders to be received by the TOWN CLERK, in sealed envelopes provided, on or before FRIDAY, 27th MAY, 1960.

COUNTY BOROUGH OF BURY.

SEEDFIELD SECONDARY MODERN SCHOOL PLAYING FIELDS.

TENDERS invited for LEVELLING, DRAINING, CULTIVATION, SEEDING, LAYING OUT and ancillary works for the ABOVE-MENTIONED PLAYING FIELDS. Tender documents obtainable from and Drawings inspected at Borough Engineer's Office, Town Hall, Bury. Tenders, in official envelope, must reach me not later than SATURDAY, 21st MAY, 1960.

EDWARD S. SMITH,
Town Clerk.

Town Hall,
Bury.

26th April, 1960.

BOROUGH OF HESTON AND ISLEWORTH.

TEMPORARY BRANCH LIBRARY—NEW HESTON ROAD, HESTON.

TENDERS are invited for the PURCHASE and REMOVAL from the site of the existing WOODEN LIBRARY BUILDING, size 43ft. x 25ft. x 10ft. high to save. Particulars and Forms of Tender to be obtained from the Borough Engineer and Surveyor, 88 Lampton Road, Hounslow. Tenders must be sealed in the envelope provided and received by me by Noon on 30th MAY, 1960.

D. MATHIESON,
Town Clerk.

Town Hall,
Hounslow, Middlesex.

PRESCOT URBAN DISTRICT COUNCIL.

ELM HOUSE/DERBY STREET SITE.

AMENDED ADVERTISEMENT.

The Council invite TENDERS for the ERECTION of 130 UNITS of ACCOMMODATION, comprising 62 Houses and 68 Maisonnettes, on the Elm House/Derby Street site.

The Road Works on the site will be available.

Plans, Specifications and Conditions of Tender may be inspected at, and Forms of Tender and Bill of Quantities may be obtained on the deposit of £2 2s. from the Council's Architects, MESSRS. GORNALL, KELLY AND PARTNERS, 155 The Albany, Old Hall Street, Liverpool, 3.

Tenders should be forwarded in a plain sealed envelope to the Clerk of the Council, Council Offices, Prescott, not later than MONDAY, 6th JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tenders.

F. LAMBERT,
Clerk of the Council.

Council Offices,
Prescott.
2nd May, 1960.

COWES URBAN DISTRICT COUNCIL.

DEMOLITION OF VICTORIA PIER, COWES.

TENDERS are invited for the DEMOLITION and COMPLETE REMOVAL of VICTORIA PIER, Cowes. Piles to be drawn or cut off at least 1ft. below sea bed level and the site completely cleared.

All salvable materials will be the property of the contractor, for which allowance should be made.

Drawing, Specification and Form of Tender may be obtained from the Engineer and Surveyor, Northwood House, Cowes.

Work is to be begun in October, 1960, and completed without interruption.

Tenders, in plain sealed envelopes, marked "Pier Demolition," to be sent to me by the 7th JUNE, 1960.

F. W. HEFFORD,
Clerk of the Council.

Northwood House,
Cowes.
29th April, 1960.

NEWTON ABBOT URBAN DISTRICT COUNCIL.

SURVEYOR'S DEPARTMENT.

TAR SPRAYING.

Contractors are invited to TENDER for the TAR SPRAYING of CLASSIFIED and UNCLASSIFIED ROADS in the Urban District.

The area involved is approx. 37,000 sq. yd. Particulars and Tender Form may be obtained from the Surveyor, 18 Devon Square, Newton Abbot.

A. DAVIES,
Clerk of the Council.

Town Hall,
Cotteray Street,
Newton Abbot.

CONTRACTS

COUNTY BOROUGH OF STOCKPORT.
OFFERTON SURFACE WATER OUTFALL SEWER.

The COUNCIL invite contractors wishing to TENDER for the ABOVE WORK, to submit their names to the BOROUGH SURVEYOR, Town Hall, Stockport.

Tender documents available early May, to be returned by Noon, 31st MAY, 1960.

Work consists of 1,130 lin. yd. of 24in. - 39in. dia. Pipes in Concrete and Spun-iron Pipes, together with Manholes, Outfall to Watercourse, and other appurtenant works.

BOROUGH OF LEYTON

CONSTRUCTION OF BUS LAY-BYS, CROWNFIELD ROAD AND HIGH ROAD, E.11; AND WIDENING OF HIGH ROAD, E.11.

TENDERS are invited for the ABOVE WORKS, including the Provision of Two Concrete Bus Lay-bys, Kerbings Works, Paving Works and Surfacing Works.

Contract documents may be obtained from the Borough Engineer and Surveyor on receipt of a deposit of £2 2s., which will be refunded on the return of a bona-fide Tender.

Tenders must be received by the undersigned by Noon on MONDAY, 23rd May, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

BOROUGH OF ACTON.

The COUNCIL invite TENDERS for the FOLLOWING:

- Supply and Erection of Fencing and Railings.
- Highway Improvement and Paving Works.
- Supply of Trailer-type Road Gritter.
- Supply of Two Dual-tip Refuse Collecting Vehicles.

(e) Mobile Tower Unit.
(f) Supply of Triple Unit Gang Grass Mower.

Forms of Tender may be obtained from the Borough Engineer, and must be returned to the TOWN CLERK, Town Hall, Acton, W.3, by 31st MAY, 1960.

BOROUGH OF GRANTHAM.

TENDERS are invited for REFELTING approx. 500 sq. yd. of FLAT ROOFING. Specifications can be obtained from the Borough Surveyor. Tenders, in plain envelopes, endorsed "Tender for Refelting Flat Roofs," to be received by MONDAY, 23rd May, 1960.

JOHN F. GUILLE,
Town Clerk.

Guildhall,
Grantham.

CITY OF PORTSMOUTH.

TENDERS are invited for the SUPPLY of ANY of the UNDERMENTIONED (no other) BRANDS of GLOSS PAINT and UNDERCOAT during the period of two years commencing 1st September, 1960:

- Atlas Super Finish.
- Broilac Gloss Enamel.
- Dockerlux Gloss Paint.
- Duradio Enamel Paint.
- Gaymel Enamel.
- Harlux Enamel.
- Ipsyn Synthetic Enamel.
- Luminol Enamel Paint.
- Neoflex Enamel.
- Parsolac Enamel.
- Roclac High Gloss Paint.
- Superlative Gloss Paint.
- Valspar Anti-Seawater Enamel.
- Bergermaster Gloss Finish.

Forms of Tender may be obtained on application to the Supplies Officer, Central Depot, Eastern Road, Portsmouth, and Tenders must be returned to the undersigned, in the envelope provided, not later than 12 o'clock Noon on TUESDAY, 31st MAY, 1960. The envelope must not bear any name or mark indicating the sender.

V. BLANCHARD,
Town Clerk.

Guildhall,
Portsmouth.

CANNOCK RURAL DISTRICT COUNCIL.

SITE CLEARANCE WORK—
HOLLY LANE CAMP SITE, GREAT WYRLEY.

TENDERS are invited for the SITE CLEARANCE of a disused CAMP SITE at HOLLY LANE, GREAT WYRLEY.

The work will comprise—
2,700 cu. yd. Demolition and Disposal of Brick and Reinforced Concrete Structures.
16,000 sq. yd. Beaking-up and Disposal of Concrete Roads, Paths and Hut Bases.
2,500 cu. yd. Bulk Excavation.

Conditions of Contract may be inspected at the Offices of the Engineer and Surveyor, Council Offices, Penkridge, from whom Bills of Quantities and Form of Tender may be obtained on payment of a deposit of Two Guineas, which will be returned on receipt of a bona-fide Tender.

Tenders must be returned to the undersigned, in the envelope provided, not later than Noon on SATURDAY, 4th June, 1960.

JOHN P. ROBERTS,
Clerk of the Council.

Council Offices,
Penkridge,
Stafford.

CHESTERTON RURAL DISTRICT COUNCIL.

OVER ROAD WATER MAIN EXTENSION.

The above Council invites FIXED-PRICE TENDERS for the LAYING of approx. 1,500 lin. yd. 4in. A.C. PIPES, VALVES, RECORDING APPARATUS and ancillary works.

Drawings and General Conditions of Contract may be inspected at the Specification, Form of Tender and Bills of Quantities obtained from the Engineer and Surveyor, County Hall, Hobson Street, Cambridge, on payment of a deposit of £2 2s., which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn.

Sealed Tenders, in envelopes provided, to be returned to the undersigned not later than Noon on THURSDAY, 2nd June, 1960.

The Council does not bind itself to accept the lowest or any Tender.

W. H. HAYWARD,
Clerk of the Council.

County Hall,
Hobson Street,
Cambridge.

28th April, 1960.

CONTRACTS

BOROUGH OF GILLINGHAM.

STRATFORD ESTATE—STAGE III.
20 HOUSES AND 12 GARAGES.

FIXED-PRICE TENDERS are invited for the ERECTION OF 20 HOUSES AND 12 GARAGES at HENLEY CLOSE, RAINHAM, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 11th MAY, 1960.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.), made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in sealed envelopes supplied, and endorsed "Tender for Stratford Estate—Stage III," must be delivered to the undersigned by not later than 12 Noon on FRIDAY, 3rd June, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.

27th April, 1960.

BOROUGH OF GILLINGHAM.

TWYDALL HAWTHORNE ESTATE.
62 FLATS.

FIXED-PRICE TENDERS are invited for the ERECTION OF ONE BLOCK OF 62 FLATS IN FOUR STOREYS, comprising 28 Two-bedroom, 34 One-bedroom Flats, Outbuildings, and 44 Car Ports at Goudhurst Road, Gillingham, Kent.

Persons desirous of tendering may obtain copies of the Bill of Quantities, Specification and Form of Tender, and may inspect the Drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 16th MAY, 1960.

Applications should be accompanied by a cheque for Five Guineas (£5 5s.), made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona-fide Tender not subsequently withdrawn.

Tenders, in sealed envelopes supplied, and endorsed "Tender for Goudhurst Road Flats," must be delivered to the undersigned by not later than 12 Noon on FRIDAY, 17th June, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham, Kent.

27th April, 1960.

BOROUGH OF ROMFORD.

DEMOLITION OF 26 MAWNEY ROAD, TOGETHER WITH OUTBUILDINGS AT THE REAR.

TENDERS are invited for the DEMOLITION of the ABOVE.

Tender documents may be obtained from the Borough Engineer, Town Hall, Romford, on deposit of a cheque for Two Guineas, which will be returned on receipt of a bona-fide Tender.

Sealed Tenders must be delivered to the TOWN CLERK, Town Hall, Romford, in the endorsed envelopes provided, by 25th MAY.

28th April, 1960.

CITY OF OXFORD.

COWLEY CENTRE DEVELOPMENT.

CONSTRUCTION OF ROADS AND SEWERS.

FIXED-PRICE TENDERS are invited from experienced contractors for the CONSTRUCTION OF ROAD, SEWER, and ancillary works, in connection with the Development of a new major Shopping Centre for the Cowley District of the City of Oxford.

The Contract will involve Construction of approx. 13,000 sq. yd. of new Carriageway, using Lean Concrete Granular Base with Machine-laid Bitumen Macadam Surfacing; 3,000 lin. yd. of Foul and Surface Water Sewers, 33in. to 6in. dia.; Manholes, Paving, and other incidental works.

The General Conditions of Contract, Specification, Bill of Quantities and Form of Tender may be obtained on written application from the City Engineer and Surveyor, Town Hall, Oxford, on or after THURSDAY, 12th May, 1960.

Drawings showing details of the above work may be viewed, by appointment, at the Office of the City Engineer and Surveyor.

Sealed Tenders, in the form supplied, and in the endorsed envelope provided, are to be returned by Post to the undersigned, to arrive not later than THURSDAY, 2nd June, 1960.

The Council does not undertake the accept the lowest or any Tender.

HARRY PLOWMAN,
Town Clerk.

The Town Hall,
Oxford.

THE COQUET WATER BOARD.

NORTHERN TRUNK MAIN.

CONTRACT NO. 6.

The Coquet Water Board invite TENDERS for the LAYING of the FOLLOWING:

- 11,340 lin. ft. or thereabouts of 18in. Steel Pipes.
- 13,280 lin. ft. or thereabouts of 16in. Steel Pipes.
- 13,140 lin. ft. or thereabouts of 9in. Steel Pipes.
- 42,340 lin. ft. or thereabouts of 12in. Spun-Iron Pipes.
- 29,275 lin. ft. or thereabouts of 9in. Spun-Iron Pipes.
- 1,500 lin. ft. or thereabouts of 6in. Spun-Iron Pipes.
- 1,800 lin. ft. or thereabouts of 3in. Spun-Iron Pipes.

Together with Special Pipes, Fittings, and the Construction of ancillary works.

The works are situated in the County of Northumberland commencing at Warkworth in the rural district of Alnwick, and terminating at Windy Law in the rural district of Belford.

Tender documents may be obtained from Mr. S. G. BARRETT, Engineer and Manager of the Coquet Water Board, P.O. Box 104, Pilgrim Street, Newcastle upon Tyne, 1, on the payment of a deposit of Five Guineas, which will be returned on the receipt of a bona-fide Tender, not subsequently withdrawn, and the return of all documents. Cheques should be made payable to the Coquet Water Board.

Tenders should be returned to the undersigned in the envelope provided, which should not bear any mark identifying the sender, not later than 10 a.m. on the 17th JUNE, 1960.

The Board are not bound to accept the lowest or any Tender.

F. G. EGNER,

Clerk and Solicitor to the Board.
14 Northumberland Square,
North Shields.

CONTRACTS

BOROUGH OF SUTTON AND CHEAM.

WORCESTER PARK SEWAGE WORKS
RECIRCULATION MAIN.

TENDERS are invited for the LAYING of approx. 150 lin. yd. of 21in. dia. SPUN-IRON PIPES.

Tender documents may be obtained from the Borough Engineer and Surveyor, Municipal Offices, High Street, Sutton, on payment of a deposit of £2 2s. (returnable on submission of a bona-fide Tender). Cheques should be made payable to the Sutton and Cheam Borough Council.

Tenders, on the prescribed form, sealed in the envelope provided, bearing no indication of the name of the sender, and endorsed "Worcester Park Sewage Works Recirculation Main," are to be delivered to the undersigned not later than 12 Noon on FRIDAY, the 3rd June, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton, Surrey.

April, 1960.

BOROUGH OF BARKING.

BARKING COMMITTEE FOR EDUCATION.

PARK MODERN SCHOOL EXTENSION.

The COUNCIL invites applications to TENDER for the ABOVE, which is estimated to cost approx. £13,000.

Bills of Quantities will be supplied to selected applicants against a deposit of £5 5s., which will be returnable upon receipt of a bona-fide Tender.

Applications to tender, on a form to be obtained from the Borough Architect, Town Hall, Barking, should be made to the undersigned not later than the 13th MAY, 1960.

E. R. FARR,
Town Clerk.

Town Hall,
Barking.

CITY OF MANCHESTER.

TENDERS, returnable by 18th MAY, 1960, are invited for the SUPPLY of UNIFORMS, SHIRTS, FOOTWEAR, etc., to the FIRE BRIGADE.

Further details from the CHIEF OFFICER, City of Manchester Fire Brigade, Fairfield St., Manchester, 1.

THE URBAN DISTRICT COUNCIL OF

HAVANT AND WATERLOO.

SEA DEFENCES—EASTOKE CORNER,
HAYLING ISLAND.

TENDERS are invited for the CONSTRUCTION of SEA DEFENCE WORKS at Eastoke Corner, Hayling Island.

The works consist of the Construction of Box Groynes along a frontage of approx. 240yd., 50ft. wide; the Construction of a Concrete Slipway and a Short Extension to the Sea Wall; and the Construction of Two Conventional Groynes.

Conditions of Contract and Drawings may be inspected at the Office of the Engineer and Surveyor, 1 Park Road North, Havant, from whom Specifications, Bills of Quantity and Form of Tender may be obtained.

No Tender will be received except in a plain sealed envelope which must bear the word "Tender" followed by the subject to which it relates, but shall not bear any name or mark indicating the sender.

Tenders must be delivered to the CLERK of the COUNCIL, Town Hall, Havant, not later than 12 Noon on FRIDAY, the 10th June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

WILLENHALL URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and DELIVERY of the FOLLOWING ITEMS during the period 1st July, 1960, to 30th June, 1961:—

- (1) Portland Cement.
- (2) Concrete Flags.
- (3) Concrete Kerb and Channel.
- (4) Grit.
- (5) House Coal and Boiler Fuel.
- (6) Road Salts.
- (7) Tarrad and Bituminous Macadam.
- (8) Dustbins.

Forms of Tender, Specifications and Conditions of Contract may be obtained from the Engineer and Surveyor, Town Hall, Willenhall, during normal office hours (a stamped addressed envelope of suitable size may be forwarded with applications for tender documents), and Tenders, enclosed in the envelopes provided by the Council, should be received by the undersigned by not later than FRIDAY, 20th May, 1960.

JOHN R. RIDING,
Clerk of the Council.

Town Hall,
Willenhall, Staffs.

WEST CHESHIRE WATER BOARD.

CONTRACT "Q."

INTAKE AT CHESTER.

FLOTSAM-SCOUR CHANNEL.

The BOARD invites TENDERS for the CONSTRUCTION of a FLOTSAM AND SCOUR CHANNEL through the existing Causeway connecting the Pumping Station with the Dee Bridge at Chester. The work to be done comprises Excavation, Reinforced Concrete, Fixing of Ironwork, etc.

Plans and Drawings may be seen, and General Conditions, Specification and Form of Tender obtained, on application to MESSRS. G. H. HILL AND SONS (MANCHESTER), Civil Engineers, 51 Mosley Street, Manchester, 2, upon deposit of a cheque for Five Guineas.

The sum will be returned to the tenderer provided that he shall have sent in a bona-fide Tender and shall not have withdrawn the same.

Copies of the Drawings are available and, if the tenderer so desires, will be supplied to him on payment of a cheque for Ten Shillings and Sixpence which will not be returned.

Alternatively, documents and Drawings may be inspected at the Board's Offices, 69 Allport Road, Bromborough, Wirral, Cheshire.

Separate cheques should be sent, made payable to G. H. Hill and Sons (Manchester).

Sealed Tenders, in plain envelopes endorsed "West Cheshire Water Board, Contract 'Q.' and addressed to the Chairman of the West Cheshire Water Board, must be delivered to the Board's Offices, 69 Allport Road, Bromborough, Wirral, Cheshire, not later than Noon on the 7th day of JUNE, 1960.

The Board do not bind themselves to accept the lowest or any Tender.

C. HART,
Clerk and Accountant.

69 Allport Road,
Bromborough,
Wirral.

CONTRACTS

CITY OF LEICESTER.

TENDERS are invited for the FOLLOWING:—
(a) Surface Dressing approx. 130,000 sup. yd.
(b) Carpet Coats to Set-paved Streets, approx. 13,500 sup. yd.
(c) Carpet Coats to Heated and Planed Streets, approx. 35,000 sup. yd.
(d) Cleaning and Sealing Joints to Concrete Roads, approx. 20,000 lin. yd.

Forms of Tender from the undersigned on payment of One Guinea, refundable on receipt of a bona-fide Tender.
Tenders to be returned, in the official envelope provided, to the undersigned not later than 4.30 p.m. on FRIDAY, 20th May, 1960.

JOHN L. BECKETT, M.I.C.E.,
City Surveyor.

Town Hall,
Leicester.

CITY OF BIRMINGHAM.

The City of Birmingham CORPORATION are prepared to receive TENDERS for the SUPPLY and DELIVERY of STORES as set forth below, for a period of 12 months from 1st July, 1960.
Conditions of Contract and Forms of Tender may be obtained on application as follows:—
To the CITY ENGINEER AND SURVEYOR, Civic Centre, Birmingham, 1, for:—

- Schedule
No.
(1) Lead (Red and White), Linseed Oil, White Spirit and Putty.
(2) Sash Cord, Rope, String, and Tarred Yarn, etc.
(3) Gas Mantles.
(4) Hammer Heads, Shovels, Forks, Pick Heads, etc.
(5) Buckets, Watering Cans, Paint Kettles, Oil Bottles, Riddles, etc.
(6) Brushes (Paint, etc.), Brooms and Mops.
(7) Road Danger Lamps.
(8) Broom and Mop Stales, File Handles, Hammer, Sledge and Pick Shafts, etc.
(9) Tubes—Light, Medium and Heavy, and Fittings.
(10) Cotton Covers—Waterproof and Rotproof.
(11) Rubber Boots and Delivery Hose Pipe.
(12) Building Materials.

To the GENERAL MANAGER, Birmingham City Transport, Council House, Congreve Street, Birmingham, 3, for:—

- Schedule
No.
(1) Oxygen, Hydrogen, Nitrogen, Dissolved Acetylene, Butane, Propane and Medical Gases.
(2) Files, Hack Saw Blades, Drills and Screwdrivers.
(3) Belting (Transmission), Balata and Leather.
(4) Screws, Cotter Pins and Pressed Nuts.
(5) Nails and Floor Brads.
(6) Bolts, Nuts, Washers, etc.—Black.
(7) Leathers and Sponges.
(8) Rags, Sponge Cloths, Cotton Waste, etc.
(9) Iron and Mild Steel Bars, Sheets, Sections and Plates.

To the HOUSING MANAGER, Bush House, Broad Street, Birmingham, 1, for:—

- Schedule
No.
(1) Glass—Sheet, Obscured, Cast and Lamp Pans.

The Tenders must be enclosed in a sealed cover, addressed as directed in the Form of Tender, and delivered not later than Noon, FRIDAY, 20th May, 1960.

BRICKWORK LABOUR only SUB-CONTRACTORS REQUIRED for housing scheme in the Oxford and Newport areas.
Write Box X.1822, "The Contract Journal."

QUOTATIONS are invited for the SUPPLY and ERECTION of CONCRETE SURROUND for a SPORTS GROUND, 6ft. high x 720yd. long.—Replies to the Sports Secretary, DAVID BROWN INDUSTRIES, LTD., Park Works, Lockwood, Huddersfield.

TECHNICAL ESTIMATING SERVICES introduced by R. J. CARR. The only service of its kind in the country—Westleigh House, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

For Contracts received too late for classification see page 545

APPOINTMENTS VACANT

FLINTSHIRE COUNTY COUNCIL.

COUNTY SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited from suitably qualified and experienced persons for the FOLLOWING APPOINTMENTS in the County Surveyor's Department, in connection with the programme of new road works:
(a) One Trunk Roads Engineer—A.P.T. V (£1,220-£1,375).

(b) Two Senior Engineering Assistants—A.P.T. IV (£1,065-£1,220).
Applicants should preferably hold an Engineering Degree and/or A.M.I.C.E. or A.M.I.Mun.E. and have had good experience in the preparation and execution of major road schemes.

Application Forms obtainable (please specify the post) from the CLERK OF THE COUNTY COUNCIL, County Buildings (P.O. Box No. 1), Mold.
Closing date: 13th MAY, 1960.

COUNTY BOROUGH OF HUDDERSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the POSITION of CLERK OF WORKS at a salary in accordance with A.P.T. I Grade (£610-£765 per annum).

Candidates should have experience in the supervision of road construction schemes. The salary mentioned above is for a 38-hour week, and overtime will be paid for additional hours worked in accordance with the conditions of service.

The appointment is superannuable, and the successful applicant will be required to pass a medical examination.

Applications, stating age, experience, and giving the names of not more than three persons to whom reference can be made, should reach A. L. PERCY, M.I.C.E., Borough Engineer and Surveyor, High Street Buildings, Huddersfield, not later than 20th MAY, 1960.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield,
May, 1960.

APPOINTMENTS VACANT

REPUBLIC OF IRAQ.

CIVIL AND MECHANICAL ENGINEERS.

The DIRECTORATE-GENERAL of the IRAQ SEWERAGE BOARD invites APPLICATIONS from suitably qualified ENGINEERS to the FOLLOWING POSTS:

- (1) Civil Engineer to act as Deputy Resident Engineer on major sewerage schemes now under construction in Baghdad. Applicants should hold an Engineering Degree (or equivalent) and have had site experience of sewerage and sewage treatment works construction. Basic salary I.D. 300 per month.
- (2) Mechanical Engineer for site and office work in connection with drainage schemes in Iraq. Applicants should hold an Engineering Degree (or equivalent) and have had experience in the design, preparation of drawings and specifications, and checking of tenders for the following mechanical plant of drainage schemes: Full sewage treatment works activated sludge and filtration plants, power generating plant, vertical and horizontal sewage pumps. Applicants should also have had experience in the erecting, checking, operation and maintenance of the above equipment. Basic salary I.D. 250-270 per month.

The appointments will be for two years and will be subject to the standard Contract of Employment of non-Iraqi Officials, which may be seen at the address below. I.D. 1 equals £1 sterling.

Application Forms may be obtained from MESSRS. JOHN TAYLOR AND SONS, Consulting Engineers, Artillery House, Artillery Row, London, S.W.1. Completed forms must be returned to MESSRS. JOHN TAYLOR AND SONS, at the above address, by WEDNESDAY, the 18th May, 1960.

Applicants placed on the short list must be available for interview in London about the 24th May.

COUNTY COUNCIL OF SUTHERLAND.

HIGHWAYS DEPARTMENT.

APPLICATIONS are invited for the TEMPORARY APPOINTMENT of one ENGINEERING ASSISTANT on the Staff of the County Road Surveyor, at a salary in accordance with Grade A Admin. Division of the N.J.I.C. for Local Authority Services (Scotland), salary scale £355-£391 per annum.

Applicants should be experienced in making surveys, preparing plans, and in modern methods of road and bridge construction, and will be under the supervision of the County Road Surveyor.

Applications, stating age, experience and qualifications, accompanied by copies of three recent testimonials, to be submitted to the undersigned not later than 12th MAY, 1960.

Canvassing, directly or indirectly, will disqualify.

A. J. MACRAE,
County Clerk.

County Offices,
Gosport,
28th April, 1960.

CHESHIRE COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of RESIDENT ENGINEER at a fixed salary within the range £1,250-£1,500.

A successful applicant will be engaged on a Contract at Ellesmere Port, involving the construction of a three-span reinforced concrete bridge over a railway and the approaches thereto.

The appointment will be for the duration of the Contract (approx. 12 months), subject to satisfactory service, and will be terminable by one month's notice on either side.

Applications, stating age, qualifications, experience and appointment held, together with the names and addresses of two referees, must reach the COUNTY SURVEYOR, Backford Hall, near Chester, by MONDAY, the 16th May, 1960.

CITY OF BIRMINGHAM.

PUBLIC WORKS DEPARTMENT.

SEWERS AND RIVERS SECTION.

APPLICATIONS are invited for the POSTS of TRADE WASTE INSPECTORS.

Candidates should be Associate Members of the Institute of Sewage Purification, with experience in the work of trade effluent control.

Applications will be considered from persons not possessing this qualification but who have an equivalent knowledge of sewerage and sewage treatment, industrial processes and trade effluents.

The Corporation does not operate its own sewage treatment works.

Salary, qualified applicants, Grade A.P.T. II (£765-£880 per annum); unqualified applicants, Miscellaneous Grade VIII (£620-£870 per annum).

The posts are permanent, superannuable and subject to a medical examination.

Applications, endorsed "Trade Waste Inspectors," stating age, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned by 21st MAY, 1960.

Canvassing disqualifies.
HERBERT J. MANZONI,
City Engineer and Surveyor.

Civic Centre,
Birmingham, 1.

21st April, 1960.

WEAR AND TEES RIVER BOARD.

SENIOR ASSISTANT ENGINEER—A.P.T. GRADE III (£880-£1,065 P.A.).

APPLICATIONS are invited for the ABOVE VACANCY from Chartered Civil Engineers or Graduates with experience in the design and execution of river improvement schemes. A good knowledge is required of survey work and hydraulic and structural calculations. Experience of direct labour work is desirable.

The commencing salary will be fixed in accordance with experience and qualifications.

The successful candidate will be required to provide and maintain a car not exceeding 10-h.p. (1.199 c.c.) with N.J.C. Essential Users' Allowances. Assistance in the purchase will be given if required.

The appointment is superannuable and will be subject to the Local Government Superannuation Act, 1953, and to medical examination.

Assistance in obtaining a house to rent can be given to persons not already residing in the Darlington area.

Application forms are obtainable from the Chief Engineer, MR. C. CLAY, B.Sc., A.M.I.C.E. at this address, and should be returned to him not later than 12th MAY, 1960.

J. E. LAVEN,
Clerk and Chief Financial Officer.

Greencroft East,
159 Coniscliffe Road,
Darlington.

APPOINTMENTS VACANT

STAFFORDSHIRE COUNTY COUNCIL.

COUNTY ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited for the FOLLOWING APPOINTMENTS, which are primarily in connection with the supervision of Motorway Contract work:

- (a) Five Assistant Resident Engineers (£1,100-£1,200). Candidates must be qualified Civil Engineers and have had suitable road or bridge design and construction experience.
- (b) Two Laboratory Assistants (£1,100). Candidates should have had practical experience in the sampling and testing of soils and road materials.
- (c) Eight Clerks of Works (£900-£1,000). Candidates must have had previous experience in road or bridge works.

The appointments are superannuable and for a period of about two years.

The County Council will, for a period of six months, grant a lodging allowance of 35s. per week and second-class return fare home every two months during that period to the successful candidate, if married and having a home outside the geographical county. The Council will also consider granting financial assistance towards any expenses reasonably incurred in connection with the removal of a successful applicant's furniture and household goods.

Canvassing of members of the Council or any Committees of the Council, directly or indirectly, will be a disqualification.

Applications, on the appropriate forms, which can be obtained from the County Surveyor, County Buildings, Stafford, should be received not later than 10 a.m. on MONDAY, 23rd May, 1960.

T. H. EVANS,
Clerk of the County Council.

County Buildings,
Stafford.

SALOP COUNTY COUNCIL.

ROADS AND BRIDGES DEPARTMENT.

APPLICATIONS are invited from those qualified and experienced for the APPOINTMENT of a DIVISIONAL SURVEYOR for the Oswestry Division. The Surveyor is in sole local charge of the maintenance and minor improvement of 42 miles of highway, including 21 miles of trunk roads.

The salary scale is £1,220, rising to £1,375, together with an allowance of £285 per annum for travelling within the Division.

Conditions of the National Council apply.

Applications, giving names of two referees, not later than 25th MAY, 1960, to the COUNTY SURVEYOR, Shirehall, Shrewsbury. (No forms.)

The person appointed will be expected to take up his duties early in October, 1960.

METROPOLITAN BOROUGH OF CAMBERWELL.

ASSISTANT ENGINEER (ELECTRICAL).

APPLICATIONS invited for this APPOINTMENT with a salary range of £1,095-£1,408 (Grades A.P.T. IV or V of the National Scales), for street lighting modernisation and maintenance. Grade and commencing salary according to qualifications and experience.

The Council is carrying out a large programme of Group "A" and "B" modernisation and proposes to take over the maintenance of street lighting during the next 12 months.

Applicants should be suitably qualified (preferably Corporate Members of the Institute of Electrical Engineers) and have wide experience in the design and installation of street lighting schemes, together with a sound knowledge of the maintenance of equipment.

Application Forms from TOWN CLERK, Town Hall, S.E.5. Closing date: 28th MAY, 1960.

BOROUGH OF HENDON.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE APPOINTMENT, at a commencing salary, according to experience, within the Grade A.P.T. II (£765-£880) plus London Weighting of £30 at age 26 and over. Pensionable post. Subject to National Scheme. Medical examination. Appointment terminable by one month's notice on either side.

Candidates must have a thorough knowledge of building construction and a wide experience of the building trade generally. Experience in the supervision of multi-storey flats is desirable.

Applications, stating age, qualifications, experience, present appointment held, and the names and addresses of three referees, must reach the Borough Engineer and Surveyor, at the undermentioned address, by 23rd MAY, 1960.

R. H. WILLIAMS,
Town Clerk.

Town Hall,
Hendon, N.W.4.

BOROUGH OF KIDDERMINSTER.

ENGINEERING CLERK OF WORKS.

APPLICATIONS are invited for the ABOVE TEMPORARY APPOINTMENT at a salary in accordance with Misc. V (£650-£715).

Applicants should be experienced in the supervision of large sewerage and road works, preferably in a Municipal Engineer's Department. Subject to satisfactory service, the appointment will be for a minimum period of 18 months.

Applications, giving full particulars and concise details of experience, and accompanied by the names of two persons to whom reference may be made, must be delivered to the undersigned not later than MONDAY, 23rd May, 1960.

J. G. STEWART, A.M.I.C.E., M.I.Mun.E.,
M.I.W.E.,
Borough Engineer and Surveyor.

110 Mill Street,
Kidderminster,
29th April, 1960.

URBAN DISTRICT COUNCIL OF BASILDON.

(Population 80,000: 27,000 Acres. Contains New Town of Basildon.)

TRENCH INSPECTOR—WITHIN MISC. IV-V (£590-£715 P.A.).

APPLICATIONS are invited from suitably experienced persons for the ABOVE PENSIONABLE POSITION.

Canvassing and accommodation will be considered, and motor-cycle allowance payable.

Full particulars and application form from, and the latter returnable to, MR. S. A. WADSWORTH, A.M.I.C.E., A.M.I.Mun.E., Engineer and Surveyor, Council Offices, 88 Town Square, Basildon, Essex. Closing 22nd MAY.

APPOINTMENTS VACANT

WORCESTERSHIRE COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT.

APPLICATIONS invited from suitably qualified candidates for the FOLLOWING SUPERANNUABLE POST on the Permanent Establishment, subject to medical examination:

Senior Engineering Assistant—Salary Grade A.P.T. IV (£1,065-£1,220).
Duties will include preliminary and detailed design work for major improvements schemes on trunk and county roads.

N.J.C. Conditions will apply.
The County Council will consider a contribution towards furniture removal expenses.
Applications to be forwarded to COUNTY SURVEYOR, County Buildings, Worcester, not later than First Post, MONDAY, 16th May, stating age, qualifications, experience, present appointment, grade and salary names and addresses of two referees. (Y.215)

EAST SUFFOLK COUNTY COUNCIL.

APPOINTMENT OF AREA SURVEYOR.

APPLICATIONS are invited for the APPOINTMENT of AREA SURVEYOR, A.P.T. IV (£1,065-£1,220), to take charge of 354 miles of trunk and county roads in the north area of the county, based on Pakefield, Lowestoft, and required to reside in that district. Must have experience in maintenance and construction of highways. Permanent, superannuated, N.J.C. Conditions and travelling allowance for car not exceeding 1,199 cc.

Applications, stating age, present and previous appointments, experience, qualifications, giving names of three referees, to County Surveyor, County Hall, Ipswich, by 23rd MAY, 1960.

G. C. LIGHTFOOT,
Clerk of the Council.

BOROUGH OF MIDDLETON.

APPLICATIONS are invited for the APPOINTMENT of a TOWN PLANNING ASSISTANT on A.P.T. Grade II (£765-£880 per annum), from persons possessing the necessary qualifications.
The appointment will be permanent, subject to one month's notice on either side, and to the Local Government Superannuation Acts.
Applications, stating age, qualifications, experience, and giving the names of two referees, should be delivered to the undersigned not later than Noon on SATURDAY, 21st May, 1960.

F. JOHNSTON,
Town Clerk.
Town Hall,
Middleton,
Near Manchester.
28th April, 1960.

BOROUGH OF MIDDLETON.

APPLICATIONS are invited for the APPOINTMENT of an ENGINEERING ASSISTANT on A.P.T. Grade I (£610-£765 per annum) from persons possessing the necessary qualifications.
The appointment will be permanent, subject to one month's notice on either side, and to the Local Government Superannuation Acts.
Applications, stating age, qualifications, experience, and giving the names of two referees, should be delivered to the undersigned not later than Noon on SATURDAY, 21st May, 1960.

F. JOHNSTON,
Town Clerk.
Town Hall,
Middleton,
Near Manchester.
28th April, 1960.

CITY OF NOTTINGHAM.

WATER DEPARTMENT.

APPOINTMENT OF TWO CIVIL ENGINEERING ASSISTANTS.

APPLICATIONS for the ABOVE PERMANENT, PENSIONABLE APPOINTMENTS are invited from Engineering Graduate and/or Corporate Members of the Institution of Civil Engineers, with five years' engineering experience, which need not necessarily have been with a Water Undertaking. The Department has in hand a large programme of new works, offering considerable opportunities for gaining valuable experience. Salary, dependent upon qualifications and experience, in Grade A.P.T. IV, viz. £1,065 x £55 x £50's (2)—£1,220.

Applications, with names of two persons to whom reference may be made to Engineer and General Manager, Water Department, Castle Boulevard, Nottingham, not later than the 23rd MAY, 1960.

T. J. OWEN,
Town Clerk.
The Guildhall,
Nottingham.

SOUTHAM RURAL DISTRICT COUNCIL.

APPOINTMENT OF RESIDENT ENGINEER AND INSPECTOR.

APPLICATIONS are invited for the APPOINTMENTS of RESIDENT ENGINEER AND INSPECTOR to supervise the construction of sewerage and sewage treatment works near Southam, Warwickshire, including the laying of about six miles of sewers, five pumping stations, and settlement tanks, filters, and incidental works, at three sites.

(a) Temporary Resident Engineer, at a fixed salary of £1,200 per annum.
(b) Temporary Inspector, at a fixed salary of £800 per annum.

A travelling allowance will be paid in approved cases.
The appointments are expected to be for a period of at least 12 months, commencing early in June, and will be subject to one month's notice.

Applicants to be considered for either post must have appropriate experience, including: Resident Engineer: At least five years' experience in similar posts supervising civil engineering works carried out works. Inspector: At least five years' experience in a thorough knowledge of supervising, inspecting and testing of pipework, excavation, concrete and brick constructional work and machinery erection.

Successful applicants will carry out their duties under the direction of the Council's Consulting Engineers, MESSRS. RICHARDS AND DUMBLETON. Applications will be invited stating particulars of age, qualifications and experience, and the names of two responsible Engineers to whom reference may be made, must be received by the undersigned not later than MONDAY, the 16th May, 1960.

J. I. YOUNG,
Clerk of the Council.
Council Offices,
Coventry Road,
Southam,
Near Leamington Spa,
Warwickshire.

APPOINTMENTS VACANT

COUNTY BOROUGH OF EAST HAM.

ENGINEERING ASSISTANTS, A.P.T. I—
SALARY UP TO £795 PER ANNUM.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.
Further details and Application Forms, returnable by 20th MAY, 1960, from the TOWN CLERK, Town Hall, East Ham, E.6.

BOROUGH OF MANSFIELD.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

HIGHWAYS INSPECTOR.

APPLICATIONS are invited for the ABOVE-NAMED APPOINTMENT—Salary Misc. Division, Grade V (£650-£715).

Applicants should have had experience in the administration and operation of the Public Utilities Street Works Act, 1950, and the construction of roads and sewers.

Further particulars and Form of Application can be obtained from the Borough Engineer and Surveyor, Carr Bank, Mansfield—closing date: MONDAY, 30th May, 1960.

A. C. SHEPHERD,
Town Clerk.

BOROUGH OF OLDBURY.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPLICATIONS are invited for the APPOINTMENT of a SENIOR ENGINEERING ASSISTANT within Grade A.P.T. III (£880-£1,065 per annum) of the National Salary Scales.
Applicants must have had experience in general municipal engineering works, and preference will be given to Corporate Members of the Institution of Municipal Engineers or the Institution of Civil Engineers.

The appointment will be superannuable and subject to the National Scheme of Conditions of Service and to the successful candidate passing a medical examination.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be delivered to the undersigned not later than 12 Noon on 18th MAY, 1960.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury,
Near Birmingham.

April, 1960.

CITY AND COUNTY OF BRISTOL.

CITY ENGINEER AND PLANNING OFFICER'S DEPARTMENT.

JUNIOR ASSISTANT ENGINEERS.

APPLICATIONS invited for POSTS of JUNIOR ASSISTANT ENGINEERS on Grade A.P.T. I (£610-£765 p.a.) and A.P.T. II (£775-£880 p.a.). These posts offer good opportunities of experience and promotion; pensionable; medical examination.

Candidates should have a university degree or have completed an approved course of training in a Consulting or Municipal Engineer's Office, have good general experience, and have made some progress towards passing Final Examination of either Institution of Civil Engineers or Institution of Municipal Engineers. Commencing grade and salary dependent upon such qualifications and experience.

Applications, stating age, qualifications, present position, details of experience, and any remarks in support of application, to CITY ENGINEER AND PLANNING OFFICER, Abbot House, Deane Road, Bristol, 1, by 23rd MAY.

BASILDON DEVELOPMENT CORPORATION.

CHIEF ENGINEER'S DEPARTMENT.

APPOINTMENT OF CLERK OF WORKS.

APPLICATIONS are invited for APPOINTMENT with the salary scale £765-£880 per annum. Candidates should be experienced in the supervision of the construction of roads, sewers, footways, services, etc. Experience of setting out and measurement of contract work would be an advantage. The successful candidate will be required to supervise a contract of about 12 months' duration, with possible further contracts to follow.

The appointment is superannuable and subject to one month's notice on either side. Applications, stating age, details of experience and names and addresses of two referees, should be sent to the GENERAL MANAGER, Gifford House, Basildon, Essex, by WEDNESDAY, 11th May, 1960.

COLLEGE OF ADVANCED TECHNOLOGY, BIRMINGHAM.

READER IN CIVIL ENGINEERING.

APPLICATIONS are invited for the ABOVE POST. Previous experience in research is essential, and the successful candidate will be required to initiate research in his particular subject and undertake a limited amount of lecturing on advanced topics.

Salary Scale: Readers (Men), £1,800-£2,100.
Further particulars and Forms of Application from the Bursar, College of Advanced Technology, Gosta Green, Birmingham, 4.

Applications to be received within 14 days of this advertisement. Please quote "X".

K. R. PILLING,
Clerk to the Governors.

PROJECT MANAGER urgently REQUIRED for a large motorway. Preference given to applicants with previous experience on similar work or schemes of major importance. This post offers exceptional conditions and prospects for future advancement to suitable applicants. Full details must be given. Only applicants with proved background will be considered. Preference given to qualified engineer.

CHIEF ENGINEER for major motorway. Applicants must have had previous experience. Preference given to qualified engineer aged 35 to 50. This position offers excellent prospects for advancement. The person appointed will be required to supervise all engineering works and staff on a major scheme. Reply, giving fullest details, past experience and salary required. Write Box V.1778, "The Contract Journal."

MAINLAYING ESTIMATOR REQUIRED: long-established London contractors carrying out work in all parts of the country. A sound, practical knowledge and a wide experience of tendering for all types of pipelaying contracts is essential for this appointment, in which the successful applicant can look forward to pensionable employment, with excellent prospects.—Write, stating age, salary required, and giving fullest details of experience, to Box V.1707, "The Contract Journal."

APPOINTMENTS VACANT

EXPERIENCED, reliable CLERK OF WORKS urgently REQUIRED to commence work preferably now, or within six weeks. Salary, according to qualifications, experience, up to £1,250. Contract, comprising 15-storey block offices, shops, etc., at Crown Site, Morden, to last about 21 months. Apply to A. GREEN, A.R.I.B.A., 23 Fitzroy Street, W.1. LAN 5051.

ESTIMATING SURVEYOR REQUIRED. Must be experienced, preferably having local outside contacts, and be capable of working on his own initiative. Contracts to value of £50,000.—Write, stating age, experience, and salary required, in confidence, to MESSRS. W. BENGRI AND SONS, LTD., Longmow, Kingsland, Leominster, Herefordshire.

SENIOR ENGINEER/AGENT REQUIRED, with experience in roads, sewers, bulk excavation and general civil engineering work, to control and organise such works. A car will be provided and a pension scheme is available. Replies, which will be treated in confidence, should state age, experience and salary required.—S. M. TIDY (PUBLIC WORKS), LTD., 161 Preston Road, Brighton, 6, Sussex.

FOSTER WHEELER, LTD., LONDON

Vacancies will shortly exist for the following site staff on construction work at home and overseas:

SITE MANAGERS

CHIEF ENGINEERS

ON-SITE AND OFF-SITE SUPERINTENDENTS

PLANNING AND PROGRESS ENGINEERS

(for head office and site duties)

OFFICE MANAGERS

MATERIAL CONTROLLERS

CRAFTSMEN GENERAL FOREMEN (all trades)

Only men with extensive experience in oil refinery or chemical plant construction, able to provide first-class references, should apply (in writing) to:

Construction Manager (Process Plants),
FOSTER WHEELER, LTD.,
3 Ixworth Place, London, S.W.3.

PLANT ENGINEER REQUIRED for plant depot near London. Must be apprentice trained and experienced in the field maintenance and repair of heavy civil engineering plant. Qualified to assist in the control of all departments in the depot and visit contracts in the U.K. Age not over 35. Salary in accordance with experience.—Write, with full particulars, to Box A.A.384, "The Contract Journal."

WANTED, fully experienced PERSON to take over Midlands area office for a company of bulk excavation contractors. Must be capable of pricing and securing contracts in area and supervising same. Write, giving full particulars of experience and salary required, to Box B.B.385, "The Contract Journal."

JUNIOR ENGINEER REQUIRED by company specialising in shuttering and temporary structures. Applicant should be a capable draftsman and preferably with some site experience. Salary by arrangement. Write brief details to: GUYREX EQUIPMENT, LTD., 25 Craven Street, London, W.C.2.

CIVIL ENGINEERING ESTIMATOR (aged 25-30).

C with adequate training and some experience of tendering for general civil engineering contracts by old-established contractors with offices in North London. This is a permanent appointment, with good prospects, for a suitable person with a university degree and/or A.M.I.C.E. and proved ability to manage a number of civil engineering contracts concurrently. — Write, giving age, salary required, and fullest details of experience, to Box V.1708, "The Contract Journal."

MARTIN AND CO. (CONTRACTORS), LTD.

Have vacancy for CIVIL ENGINEER-AGENT, who is needed to give personal attention to local contracts. Increasing opportunity in area and have passed with new expanding company. Car provided.—Write:

MARTIN AND CO. (CONTRACTORS), LTD.,
1195 Bristol Road South, Northfield, Birmingham, 31.

CIVIL ENGINEERING.—Additional staff are REQUIRED for the management of our civil engineering contracts, owing to continuous expansion of our activities. We are a large public company engaged in civil engineering and building, and are seeking ambitious men, with a genuine interest in modern management techniques, to fill the following positions:

MANAGER.—To take control of all the company's civil engineering contracts. Candidates, aged 35 to 45, should preferably have a university degree and/or A.M.I.C.E. and proved ability to manage a number of civil engineering contracts concurrently.

AGENTS and SUB-AGENTS.—For the site management of civil engineering contracts up to £300,000 in value. Candidates, aged 30 to 40, and 35 to 35, respectively, should preferably have a university degree and/or have passed the examinations for A.M.I.C.E., and should have previous experience in site management.

Remuneration is high, and commensurate with the responsibilities attaching to each position. Profit-sharing, superannuation and car schemes are in operation, and assistance will be given with accommodation, if required.—For further details apply, in strict confidence, to A. C. Bryant, Managing Director, C. BRYANT AND SON, LTD., Small Heath, Birmingham, 10, quoting reference CJ/460.

QUANTITY SURVEYORS AND ASSISTANTS

REQUIRED for London, provincial and overseas contracts. Good salary, superannuation, excellent prospects.—Write, giving details of experience, age, etc., to:

Personnel Department,
HUMPHREYS, LTD.,
Building and Civil Engineering Contractors,
199 Knightsbridge, S.W.7.

TRAINEE ESTIMATOR, young, for mastic asphalt and macadam surfacing trades, Merseyside area. Some knowledge of building trade an advantage. State experience, salary required and when available, to Box A.815, Lee and Nightingale, Liverpool.

BOURNEMOUTH.—Long-established engineering company REQUIRE a REPRESENTATIVE of exceptional calibre to play key part in expansion of plant division. Energetic, technically sound, with comprehensive sales experience. Excellent salary opportunities in step with development of division by right man. Age limits 28-40. Non-contributory pension scheme and life assurance.—Write in confidence to Managing Director, HUNT AND CO., LTD., 51-65 Holdenhurst Road, Bournemouth.

APPOINTMENTS VACANT

MANAGER REQUIRED for civil engineering contractor's depot in the London area. Must be experienced in plant repairs and be capable of organising transport and the movements of plant.—Write, stating age, experience, and salary required, to Box V.1731, "The Contract Journal."

THOMAS LOWE AND SONS, LTD., of Curzon Street, Burton-on-Trent, have a vacancy for a **GENERAL FOREMAN** capable of taking charge of building contracts in the Birmingham area up to a value of £200,000.—Applications should be submitted, in writing, stating age, experience and salary required.

CUBITTS (NORTH-WEST)

Staff positions.—Due to expansion and promotion, there are openings for the following staff: **QUANTITY SURVEYORS** (Ref. Q5/5) **ASSISTANT QUANTITY SURVEYORS** (Ref. QSA/8) **COST SURVEYORS** (Ref. COS/3) Applicants for above positions must be prepared to work on contract sites in various parts of the north-west. **BUYING ASSISTANTS** (age 21-25) (Ref. BUY/6) Vacancies are at headquarters, Bromborough. Applicants should have a minimum of two years' experience and give full details of past and present employment and salary (in confidence), together with education, qualifications, age and when available. All staff appointments are eligible for pension and bonus schemes. The company will also consider applications from suitable candidates for other technical positions.—All applications should be addressed to:

Personnel Officer,
HOLLAND & HANNEN AND CUBITTS
(NORTH-WEST), LTD.,
Building and Civil Engineering Contractors,
New Chester Road, Bromborough, Wirral, Cheshire.

SITE ENGINEERS REQUIRED for large civil engineering contracts in Midland and Southern Areas. Good prospects for keen and accurate Engineers. Reply, stating details of age, experience, and salary required, to M. J. GLEESON (CONTRACTORS), LTD., c/o Department, Harewood House, London Road, North Chesham, Surrey.

ASSISTANT QUANTITY SURVEYOR REQUIRED for a major road and bridge work contract in Lincolnshire. Fine prospects, pension and bonus scheme. — **ROBERT MCGREGOR AND SONS, LTD.**, Turnoaks Lane, Chesterfield. Tel.: Chesterfield 7056.

ESTIMATORS REQUIRED for well-established civil engineering and building firm at their head office in Birmingham. Good prospects, bonus and staff pension scheme.—Write in confidence, stating age, experience, and salary required, to Box V.1747, "The Contract Journal."

CIVIL ENGINEERS AND ASSISTANTS REQUIRED for contracts in the East Midlands. Preference for those previously employed by contractors. Salary commensurate with experience; participation in superannuation scheme, and ample opportunities for advancement to satisfactory applicants.—Write Box V.1760, "The Contract Journal."

CIVIL ENGINEER

REQUIRED by old-established firm of civil engineering contractors specialising in piling. Preferably under 30. Qualified A.M.I.C.E. and willing to travel. Good prospects for the right man.—Write, with details of experience and salary required, to:

BOX V.1689, "THE CONTRACT JOURNAL."

SENIOR PLANNING ENGINEER REQUIRED for senior position with large expanding organisation. Candidates preferably qualified and having had at least three years' experience in similar capacity. Apply, stating fullest details, to **MARTIN COWLEY, LTD.**, 112 Jermyn Street, S.W.1.

PLANT MANAGER REQUIRED for civil engineering and building contractors. Applicants must be able to prove successful background with the larger type of contractor in a senior executive position. Applicant with engineering degree or qualification preferred. Must be familiar with all types of civil engineering equipment and experienced in designing plant layouts and special equipment for all types of projects. This appointment offers scope for experienced and ambitious Plant Managers able to run a large department in liaison with senior technical staff.—Written applications, stating fullest details, together with an indication of salary required, to Box V.1789, "The Contract Journal."

ACCOUNTS CLERK—Civil engineering contractors REQUIRE competent senior, able to take books to trial balance, for head office of subsidiary company in N.E. Africa. Good salary, accommodation and leave. Write Box V.1758, "The Contract Journal," quoting Ref. QRS/12.

ASSISTANT SHIFT FOREMAN

An **ASSISTANT SHIFT FOREMAN** is required in the mobile and civil engineering plant department. The successful candidate will be responsible for the co-ordination, control and supervision of work in the operations and workshop section of the department. General day school education up to grammar school level is preferable. Applicants should have completed an apprenticeship in general or I.C. engineering, and O.N.C. in these subjects would be an advantage. A wide experience of automobile, mobile plant and earthmoving machinery engineering practice and operation is essential.—Please write, giving full details of age, experience, qualifications and any further information considered relevant, to:

Superintendent, Personnel Services,
THE STEEL CO. OF WALES, LTD.
(Steel Division),
Abbey Works, Port Talbot, Glam.

SITE ENGINEERS, between 20 and 30 years of age, are required for contracts in the Midlands. Permanent, progressive appointments with superannuation, subsistence and bonus for applicants with at least three years' site experience or graduate status.—Please write in strict confidence to Area Planning Engineer, **SIR ALFRED MCPALPINE AND SON, LTD.**, 49 Waterloo Road, Wolverhampton.

SOUND general civil engineering CONTRACTS ENGINEER, capable of dealing with estimating, planning, practical works and all accounts. Value of contracts up to £100,000. Sound prospects for right man prepared to settle. Salary £1,200-£1,500. Car provided.—Reply to the Secretary, **WORCESTER PLANT HIRE AND CONTRACTORS, LTD.**, 6 Bank Street, Worcester.

APPOINTMENTS VACANT

ENGINEER-AGENT REQUIRED for large asbestos-cement water main scheme. Age 30-45. Must be fully experienced in this class of work and be prepared to travel salary commensurate with age and experience.—Write, including copies of references, to Box V.1740, "The Contract Journal."

CIVIL ENGINEERING—There is a vacancy in the roads and sewers department of our homes division for a **CIVIL ENGINEER** (Graduate preferred). This position will suit an active young man who wants to join a cheerful but determined team engaged in building well-designed homes and the attendant estate works as quickly as possible. The company's outlook is extremely progressive, providing excellent scope for advancement. Homes division is a very virile part of the Group. We offer a generous salary, firm's car and, if necessary, assistance in accommodation. The job is, of course, pensionable. If you are interested, apply to me personally, in writing. — Roy Davies, Director, **C. MCYANT AND SON, LTD.**, Small Heath, Birmingham, 10.

THOMAS VALE AND SONS, LTD.

Applications are invited for posts as **SUB-AGENTS, ENGINEERS** on good-class motorised, reinforced concrete and civil engineering contracts, mainly in West Midlands and South Wales. Posts are visualised as progressive and pensionable after probationary period.—Please apply to:

General Manager,
THOMAS VALE AND SONS, LTD.,
Stourport-on-Severn, Worcs.

CONCRETE ENGINEER OR CHEMIST REQUIRED to take technical control of quality of large quantities of ready-mixed concrete in Liverpool area. Applicant must have had experience in concrete laboratory testing procedures and trouble shooting in the field. To a man with drive and initiative this permanent position offers unique opportunities. Worldwide company in an expanding industry.—Reply in confidence to Technical Director, **READY MIXED CONCRETE, LTD.**, 2/3 The Sanctuary, London, S.W.1.

CIVIL ENGINEER REQUIRED for large low-pressure compressed-air shield driven tunnel contract in Hull.—**MITCHELL BROTHERS SONS AND COMPANY, LTD.**, 67 Victoria Street, London, S.W.1. Tel.: Victoria 4378.

CIVIL ENGINEER REQUIRED with good degree and some experience for contracts in the West Midlands. Good salary, incentive bonus, superannuation scheme. Car provided.—Write Box V.1775, "The Contract Journal."

THE PIPELINE DIVISION

OF CONSTRUCTORS JOHN BROWN, LTD., have several interesting contracts both in the U.K. and overseas, and urgently require:

SPREAD BESSES
RIGHT-OF-WAY FOREMEN
LINE-UP AND WELD FOREMEN
HOPE FOREMEN
TIE-IN FOREMEN

These positions are permanent, progressive and give plenty of scope to the right men, who have had experience in: Pipe wrapping; welding or ditch digging. Selected staff will be entitled to join our non-contributory pension scheme, carrying life assurance benefits after a qualifying period.—If you consider that you can fill any of the above, please write in the first instance, giving full particulars and quoting Ref. No. J7022, to:

The Personnel Manager,
CONSTRUCTORS JOHN BROWN, LTD.,
CJB House,
Eastbourne Terrace, Paddington, London, W.2.

WIMPEY—Vacancies exist for **CIVIL ENGINEERING FOREMEN** with experience in building site groundworks and who are familiar with roads and sewer construction work. Good remuneration offered to the right men.—Write, stating age and experience, to **GEORGE WIMPEY AND CO., LTD.**, 27 Hammer-smith Grove, London, W.6. Ref. 55.47.

MARTIN COWLEY, LTD.—We would be pleased to receive applications for suitably qualified Engineers for interesting work on large projects. All grades of staff required.—Apply, stating fullest details, to 112 Jermyn Street, S.W.1.

COMPETENT PILING FOREMAN REQUIRED—Apply to **WINTON CONSTRUCTION CO., LTD.**, Eastgate, Louth, Lincs.

SENIOR QUANTITY SURVEYOR REQUIRED for employment with Cumberland builders. Experience of final accounts and estimates. House available. Write, giving full details of experience and qualifications, and state salary required, to Box V.1715, "The Contract Journal."

AGENTS, SUB-AGENTS

Civil engineering contractors REQUIRE first-class men with extensive site experience of the organisation and successful execution of large contracts involving heavy, high-quality reinforced and prestressed concrete structures.—Give details of age, qualifications, experience, quoting Ref. DEF/4, to:

BOX V.1814, "THE CONTRACT JOURNAL."

ASSISTANT QUANTITY SURVEYORS REQUIRED for general road works. Southern area. Experienced in site measuring and final bills. Good progressive positions. Staff pension scheme.—Write, giving age, experience, and salary required, to Box V.1771, "The Contract Journal."

QUANTITY SURVEYOR—Applications are invited from fully trained Quantity Surveyors for work on site in Cumberland in connection with civil engineering and reinforced concrete construction, for a period of 12 months from August. High salary will be paid to the right applicant.—Write Box V.1786, "The Contract Journal."

ESTIMATOR REQUIRED by well-known firm of road surfacing contractors, to fill vacancy in their Birmingham office. This is an excellent opportunity for a young man with drive and ambition. Applicants must be fully experienced in preparing tenders and estimates for all types of civil engineering work. Write Box V.1648, "The Contract Journal."

SITE CLERK REQUIRED for civil engineering contract in Hertford area. Applicant with contractors' office experience preferred. Good salary and pension scheme.—Write, giving full particulars of experience, age and salary required, to Box V.1777, "The Contract Journal."

APPOINTMENTS VACANT

CIVIL ENGINEERING contractors seek to appoint the following: (a) A **SENIOR QUANTITY SURVEYOR**: This is a key appointment, permanent and pensionable, which offers considerable scope for the applicant with initiative and imagination. The successful applicant will be in charge of the quantity surveying department at head office and will be responsible for the preparation of interim and final accounts for general civil engineering and building contracts. A car will be provided, but the position will not involve living away from home, and should therefore appeal to those applicants with considerable site experience who now wish to establish themselves in one area. Applicants should be aged between 35 and 45. (b) An **ASSISTANT QUANTITY SURVEYOR**: This, again, is a permanent and pensionable appointment. A car will be provided, but the position will not involve living away from home. Applicants should be aged between 25 and 35.—Generous salaries are offered for both appointments, and applicants should apply in writing, giving details of experience and present salaries, to Chief Engineer, **CLUGSTON CAWOOD, LTD.**, St. Vincent House, Normanby Road, Scunthorpe, Lincs.

CUBITTS

Applications are invited from suitably qualified MEN for employment in the planning section of the company's main building department. The work includes detailed time and method, operational planning and budgetary control of expenditure on labour, plant and materials. The appointments offer excellent opportunities in a progressive organisation to men seeking advancement. Superannuation and other staff benefit schemes are in operation.—Full details of training and experience should be sent to:

The Personnel Manager (CJ5466),
HOLLAND & HANNEN AND CUBITTS
(GREAT BRITAIN), LTD.,
1 Queen Anne's Gate, London, S.W.1.

SMALL firm of civil engineering contractors, about to pursue policy of planned expansion, REQUIRE the following staff, who must be energetic, forward looking, have a keen sense of responsibility and capacity for hard work: (a) Qualified **CIVIL ENGINEER/ESTIMATOR**, 30-35 years' old, able negotiator, good all-round experience with reputable contractors—at least six years on sites and three years estimating from head office. Duties—planning; estimating and site cost control; (b) qualified **COST AND WORKS ACCOUNTANT**, 30-35 years' old, to establish costing system and be responsible for financial accounts, budgetary control, production of unit costs and financial statements to management; (c) **DEPUTY MANAGER**, 35-40 years' old, with extensive workshop trained. To be responsible for planned maintenance of all kinds of contractors' plant, commercial and private vehicles, allocation of costs, the hiring in of plant as required and the hiring out of plant surplus to requirements and the engagement of suitable workshop labour; (d) **SITE ENGINEER**, about 25 years' old, preferably qualified with at least three years' site experience with reputable contractors. Duties—setting out, site measurements for interim certificates, assisting with planning and site control. Applicants should be prepared to name referees when requested to do so, and should state age, salary received and give details of experience and position held in chronological order. Mark envelopes "Confidential," and reply to Box V.1796, "The Contract Journal."

A. MONK AND CO., LTD.

REQUIRE SITE CLERKS for major civil engineering and building contracts in various areas of England and Wales. Experience in preparation of wages sheets and P.A.Y.E. essential.—Replies, which will be treated in confidence, and must give details of previous experience and state age and salary required, should be addressed to:

The Accountant,
A. MONK AND CO., LTD.,
Padgate, Warrington, Lancashire.

SENIOR ENGINEER, age 25-35, required by civil engineering contractors for north-west area. Permanent position for man of ability, who must have varied experience on large-scale civil engineering works and be able to pre-plan contracts and control engineering staff on a number of sites concurrently. Good salary, pension and transport provided.—Apply in confidence, with full details, age, experience and salary expected, to Box V.1794, "The Contract Journal."

R.C. DESIGNER DETAILER WANTED at once by underpinning, jacking specialists. Men aged 25-30 should apply, stating age, experience, qualifications, present salary, to **PYNFORD, LTD.**, 74 Lancaster Road, London, N.4.

STRUCTURAL ENGINEER WANTED at once by underpinning, jacking designer, contractors. An excellent opportunity for men aged 20-30.—Apply, stating age, experience, qualifications, present salary, to **PYNFORD, LTD.**, 74 Lancaster Road, London, N.4.

DIRECTOR FOREMEN—Energetic young men REQUIRED to erect concrete buildings in North of England. Good pay and prospects for men prepared to accept responsibility and work at distances from depots.—Apply in first instance to Works Director, **Atcost, Ltd.**, Paddock Wood, Kent.

SITE ENGINEER

REQUIRED for setting out, levelling and general site work by a large south-west London firm of building and civil engineering contractors. The position offered is permanent one, and a good salary will be paid to the candidate selected.—Please write, giving age, experience and present salary, to:

BOX 995, c/o **GEO. MURRAY (ADVC.), LTD.**,
Columbia House, Aldwych, W.C.2.

EXPERIENCED STEEL BENDER FOREMAN REQUIRED to take charge of shop involving 40 men. Write Box V.1762, "The Contract Journal."

SUPERINTENDING CLERK OF WORKS REQUIRED for multi-million skyscraper block in Manchester. Salary and expenses £1,750 per annum.—Apply, in writing, giving full particulars and experience, to: **COVELL AND MATTHEWS**, 34 Sackville Street, W.1.

SITE ENGINEER REQUIRED by firm of civil engineering contractors operating in and around London. Excellent opportunity for young man with a background of general civil engineering works. Permanent progressive position. Pensionable. Good salary offered to right man.—Apply to: **RUDDOCK AND MEIGHAN, LTD.**, Burford House, Harrow View, Wealdstone, Middlesex.

APPOINTMENTS VACANT

RESIDENT ENGINEER REQUIRED for civil engineering work and reinforced concrete construction for a period of 12 months from August at a site in Cumberland. High salary will be paid to the right applicant.—Write Box V.1785, "The Contract Journal."

AREA AGENT/ENGINEER REQUIRED by contractors, to be responsible for roads, sewers and site preparation on large-scale developments and other civil engineering works in South Wales. This is a senior appointment, and is permanent and pensionable. Salary commensurate with ability and experience. Write, in confidence, stating age, experience, past and present employers, to Ref. LTW/BN1, DAVIS CONTRACTORS, LTD., 350 Kilburn High Road, London, N.W.6.

MAINTENANCE MANAGER REQUIRED to deal with all aspects of maintenance on several dwellings, both old and new. This is a permanent, pensionable position. Salary commensurate with ability and experience. A car or car allowance will be provided. Write, in confidence, stating age, experience, past and present employers, to Ref. LTW/BN3, DAVIS CONTRACTORS, LTD., 350 Kilburn High Road, London, N.W.6.

RAYMOND INTERNATIONAL

REQUIRE an energetic **CIVIL ENGINEER**, aged between 28 and 40, to promote heavy civil engineering and piling work and to negotiate Centrifuge pipe lining contracts in the Far East. He should be accustomed to transacting business at top level within the area, and prepared to reside there and travel extensively. An initial period of training will be given in the U.S.A. Salary will be by negotiation and will not be less than £2,000 per annum.—Write to:

RAYMOND INTERNATIONAL, LTD.,
93/107 Shaftesbury Avenue, London, W.1.

SITE ENGINEER urgently REQUIRED for setting out and other duties in connection with estate development in the south of England. Considerable travelling will be involved, and a car or car allowance will be provided. This is a permanent, pensionable position with prospects. Salary commensurate with experience. Write, in confidence, stating age, experience, past and present employers, to Ref. LTW/BN3, DAVIS CONTRACTORS, LTD., 350 Kilburn High Road, London, N.W.6.

GENERAL FOREMAN REQUIRED for multi-storey flats contract in London area, carpenter by trade. Must be experienced in reinforced concrete work. Excellent conditions for right man.—Apply, with relevant particulars, to: **THOMAS MCINERNEY AND SONS, LTD.,** 27 Clarendon Road, Watford, Herts. (Tel.: Watford 22277).

ENGINEER REQUIRED for road and sewer contracts, experienced in site surveys and preparation of drawings. Position permanent and pensionable. Apply, in writing, giving age, experience and salary required, to: **DANIEL T. JACKSON, LTD.,** Pegasus Works, Roebuck Road, Ilford.

QUANTITY SURVEYORS

Vacancies exist on major civil engineering and industrial building projects for experienced:—

CHIEF SITE SURVEYORS
ASSISTANT SURVEYORS
BONUS SURVEYORS and **EXPERIENCED CLERKS.** Positions are available in various locations throughout Great Britain, which offer excellent prospects and opportunity for permanency and promotion. Pension scheme and life insurance. Apply, in confidence, giving age, details of education, training, qualifications and experience, with indication of salary required, to:

ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

SENIOR MEASURING SURVEYOR or **ENGINEER** REQUIRED for the civil engineering division of a large firm of civil engineering and building contractors. The successful applicant will be based at the company's head office in Liverpool and will be required to work under the control of the director-in-charge and the chief contracts manager, and in liaison with agents of the department. He will undertake the preparation of substantial monthly certificates and variations and carry out the negotiations concerned with these. He must therefore have a considerable practical experience as well as several years' current experience in handling and successfully settling final accounts. The salary paid will be substantial and commensurate with the experience and ability of the applicant. A superannuation scheme is operated. Applicants should write in the first instance for an application form, which will be treated in strict confidence.—Apply to **THE NORWEST CONSTRUCTION CO., LTD.,** Rutheven Road, Litherland, Liverpool, 21, marking envelope "For the attention of the joint managing director," and quoting Reference SMS/1.

CIVIL ENGINEERS

Vacancies exist on major civil engineering and industrial building projects for experienced:—

AGENTS and SUB-AGENTS
SENIOR and JUNIOR ASSISTANTS for planning and site work. Positions are available in various locations throughout Great Britain, which offer excellent prospects and opportunity for permanency and promotion. Pension scheme and life insurance. Apply, in confidence, giving age, details of education, training, qualifications and experience, with indication of salary required, to:

Personnel Manager.
ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

MASTIC ASPHALT CO., N.W. area, REQUIRES ASSISTANT MANAGER. Applicants should be capable of eventually controlling this department and should be experienced in estimating for all classes of Mastic asphalt work, should be established with the architectural profession and capable of organising labour, and will be required to show proof of considerable experience in the Mastic asphalt industry. Superannuation and insurance schemes in operation. Please give full particulars (in confidence), stating age, experience, salary required, etc. to Managing Director, Box V.1792, "The Contract Journal."

SITE ENGINEER REQUIRED by civil engineering contractors for roadworks and main drainage contracts in Home Counties. A salary range of £550-£1,000 per annum, with good prospects for a keen young man who is confident and experienced in setting-out, etc.—Apply in writing, giving details of training and experience, age and previous employers, etc., to Box V.1793, "The Contract Journal."

APPOINTMENTS VACANT

JUNIOR ENGINEER (civil) REQUIRED for setting-out and supervision of small contracts in the Brighton area.—Write, in the first instance, giving details of experience, qualifications and salary required, to **S. M. TIDY (PUBLIC WORKS), LTD.,** 161 Preston Road, Brighton, 6.

ESTIMATOR ASSISTANT REQUIRED by small firm of public works contractors in South Herts. An opportunity arises for an individual capable of supervising contracts secured to a successful conclusion as proprietor, who has no family, desires to reduce his own working week to about four days.—Applications, stating experience and salary required, to Box V.1795, "The Contract Journal."

W. AND C. FRENCH, LTD., urgently REQUIRE experienced **ENGINEERS**, preferably qualified, for building and civil engineering contracts in the Home Counties. Good prospects for suitable applicants.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex, quoting Reference No. 167.

CUBITTS

Surveying and estimating staff.—Appointments in London will be made as follows:—

SENIOR SURVEYOR
Civil engineering, not less than seven years' experience after training.

SURVEYOR and ESTIMATOR/SURVEYOR
Medium-sized building work.

The positions offer very good conditions and prospects in a large and expanding organisation.—Suitably qualified candidates are invited to write, in strictest confidence, to:

Personnel Manager (CJ/5460),
HOLLAND & NANNEN and CUBITTS
(GREAT BRITAIN), LTD.,
1 Queen Anne's Gate, London, S.W.1.

ASSISTANT ENGINEER REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract with excellent opportunities for advancement. Good salary and conditions and entry into superannuation scheme after 12 months' service.—Apply to **THE MITCHELL CONSTRUCTION CO., LTD.,** Wharf Works, Peterborough.

SUB-AGENT REQUIRED by major civil engineering and building contractors operating on a national scale on nuclear, steam and hydro-electric projects. This permanent appointment is initially for a major civil engineering contract, with excellent opportunities for advancement. Good salary and conditions and entry into superannuation scheme after 12 months' service.—Apply to **THE MITCHELL CONSTRUCTION CO., LTD.,** Wharf Works, Peterborough.

CIVIL ENGINEERING and BUILDING

Vacancies exist on major civil engineering and industrial building projects for experienced:—

GENERAL FOREMEN
TRADES FOREMEN
GANGERS
CASHIERS and OFFICE MANAGERS
WAGES and COST CLERKS
FOREMAN SITE FITTERS

Positions available in Midlands and various parts of Great Britain, offering good prospects.—Apply, stating age, training, experience and indication of wages required, to:

ROBERT M. DOUGLAS (CONTRACTORS), LTD.,
395 George Road, Erdington, Birmingham, 23.

W. AND C. FRENCH, LTD., urgently REQUIRE fully experienced **BONUS SURVEYORS** for civil engineering and building contracts.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New Road, Buckhurst Hill, Essex, quoting Reference No. 867.

BUILDING MANAGER/ASSISTANT TO BUILDING MANAGER REQUIRED by **MOWLEM (SCOTLAND), LTD.,** on a nuclear generating station contract in Avonshire. The successful candidate should have had several years' site experience in similar capacity dealing with sub-contractors and interpretation of specifications and drawings. An H.N.C. or L.I.O.B. qualification would be an advantage but not essential. Salary in accordance with age and experience. A subsistence allowance will be paid where applicable, and an invitation to the company's superannuation scheme will follow after a probationary period.—Write, giving full particulars, to The Agent, **MOWLEM (SCOTLAND), LTD.,** Hunterston Nuclear Generating Station, West Kilbride, Ayrshire.

ASSISTANT BUYER REQUIRED by West End civil engineering contractors, age 23-30.—Write, giving age, experience and qualifications, and salary required, to the Chief Buyer, **PETER LIND AND CO., LTD.,** Romney House, Tufnell Street, S.W.1.

CUBITTS

REINFORCED CONCRETE DESIGNERS, DETAILERS and DRAFTSMEN are REQUIRED for an immediate expansion of structural drawing office. The work will be interesting and involve the use of precast and prestressed concrete. Experience in these techniques will be an asset, but opportunity will be provided for training those who are interested and have some basic knowledge of reinforced concrete. Please send full details to:

Personnel Manager (CJ/5462),
HOLLAND & NANNEN and CUBITTS
(GREAT BRITAIN), LTD.,
1 Queen Anne's Gate, London, S.W.1.

REINFORCED CONCRETE DESIGNERS and R.C. DESIGNER/DETAILERS are REQUIRED by **JOHN MOWLEM AND CO., LTD.,** for a London office. Salaries will be commensurate with ability and experience. Five-day working week and luncheon vouchers provided. Holiday arrangements honoured.—Full particulars in writing, of age, qualifications and experience, should be sent in the first place to **CONSTRUCTIONAL SERVICES, LTD.,** 123 Victoria Street, London, S.W.1.

SALES REPRESENTATIVE, to sell heavy commercial vehicles, REQUIRED by Ford distributors in Kent. Age 25 to 45. Unique opportunity for successful applicants to make a proven sales record in the heavy commercial field. High remuneration, car provided. Contributory pension scheme.—Write, giving fullest particulars of career up to date, to Box V.1826, "The Contract Journal."

APPOINTMENTS VACANT

SURFACE MAINTENANCE SERVICES, LTD. The following senior staff positions are under consideration. All posts are permanent and offer excellent prospects for applicants of proven ability with the appropriate qualifications and experience:—

(1) **CONTRACTS MANAGER** to take charge of the company's department that deals with private street works contracts. The turnover of this department is approx. £300,000 per annum and involves the handling of a large number of small sites, location in the Home and Southern Counties. Applicants for this position must be fully experienced in this particular type of contract and be capable of controlling the work from the tender stage to completion.

(2) **AREA AGENT** to take charge of a number of small general civil engineering contracts, location on the South Coast. The applicant must be capable of handling a turnover of approx. £250,000 for contracts of £2,000 to £10,000, consisting of road improvement works, sewers, car parks, etc. Working from an area office, he must undertake contracts negotiations, interim and final accounts, setting out and general administration.

(3) **SENIOR AGENT** to take complete charge of a larger outfall sewer contract on the South Coast, involving cast-iron and concrete pipe work, filling, pumping station, etc. The applicant must be a qualified civil engineer, having held a senior position for at least five years, with particular experience in this type of contract.

(4) **ENGINEER/AGENT** to take charge of £200,000 road contract, including minor bricklaying and culvert work. Applicant must be an engineer with previous road construction experience and capable of working on his own initiative.

(5) **SENIOR QUANTITY SURVEYOR** to work in the Bournemouth office and take charge of the processing of civil engineering interim and final accounts, and to assist the costing and estimating departments. Applicant must have had several years' experience, particularly with civil engineering works.

(6) **SITE ENGINEERS**, Senior and Juniors, for site work in the Home Counties, capable of setting out measurement for interim and final accounts, and to assist with rate administration. Previous site experience with contractors essential.

(7) **GENERAL FOREMAN** to take charge of small and medium-sized contracts. Must be fully experienced in all types of civil engineering works, including roads, sewers, bridges, water mains, etc. Applications, in writing, giving full details of qualifications, past experience and names of previous employers, enclosing copies of at least two recent testimonials, should be addressed to: **Personnel Manager, SURFACE MAINTENANCE SERVICES, LTD.,** 124 Old Christchurch Road, Bournemouth, Hants.

CONCRETE ENGINEER

With administrative experience WANTED in very near future to manage ready mixed concrete business in South Bucks. area.

WRITE BOX V.1788, "THE CONTRACT JOURNAL."

FULLY experienced **SITE ENGINEER** REQUIRED for sewage disposal works in Midlands. Good salary paid plus car allowance, etc. to be supplied. Apply, stating details of experience, etc., to: **THE MIDLAND CONSTRUCTION CO. (BIRMINGHAM), LTD.,** 47-50 Lower Dartmouth Street, Birmingham, 9.

MEASURER REQUIRED by tarmacadam and asphalt company in London area. Should be capable of measuring up and finalising surfacing contracts and minor preparation works, and in submitting final bills. Write Box V.1691, "The Contract Journal."

GENERAL FOREMAN REQUIRED at once to take over large W.D. contract between Gloucester and Newport. The contract is one of urgency and requires experience in handling large contracts to a strict time schedule. This is a staff appointment and the person appointed will be eligible to join superannuation scheme after a short trial period. Write Box V.1825, "The Contract Journal."

ESTIMATOR REQUIRED for building contractors' office for pricing general building work, £20,000-£500,000, in the southern half of England, from head office in London, S.W.16.—Reply, stating age, experience and salary required, to Box V.1832, "The Contract Journal."

For Advertisements received too late for classification see page 545

APPOINTMENTS WANTED

PLANT MANAGER REQUIRES POSITION of responsibility with civil engineering company. Fully experienced in control of mechanical plant, supervision of site servicing, operators, workshop repairs and stores. Sound administrator and keen costs man. Resident London area. Write Box W.1732, "The Contract Journal."

REPRESENTATIVE and CONTACTS MAN with connections in London and Home Counties SEEKS POSITION with progressive company. Experience covers sales, hire and earthmoving. Resident S.W. London.—Write Box W.1733, "The Contract Journal."

CIVIL engineering contracting **DIRECTOR/EXECUTIVE MANAGER**, life experience, wide knowledge, good contacts, shortly available for appointment where energetic application can be of mutual advantage. Write Box W.1797, "The Contract Journal."

QUALIFIED ENGINEER/MANAGER SEEKS POSITION as **CHIEF ENGINEER/CONTRACTS MANAGER** or **PARTNERSHIP**. Experienced in all aspects of contract work of various sizes from estimating and start to finish. Write Box W.1769, "The Contract Journal."

ENGINEER, 34, experienced highway works, county borough, and contractors, LOOKS for EMPLOYMENT in Northern England. Wide experience in surfacing works. Write Box W.1831, "The Contract Journal."

CONTRACTORS' MANAGER, early fifties, many years' experience managing considerable civil engineering and building design and construction work. Good knowledge of the problems of expansion. London or south preferred. Write Box W.1841, "The Contract Journal."

GENERAL FOREMAN, fully experienced in civil engineering, especially high-grade R.C. structures, capable in formable design, settlement, use of instruments and economical site organisation. C. and J. Age 45.—**ADVERTISER**, 5 Farlow Road, Putney, London, S.W.15.

WORK REQUIRED

FOR HIRE IN MIDLANDS, new Blaw Knox PF90 PAVING MACHINES, complete with experienced operators (and gang) if required. Sub-contract work or price per ton for material laid (Macadam, Asphalt, Wetmix, Leanmix Concrete, etc.). For full details, apply: **CAMMIDGE ROAD CONSTRUCTIONS, LTD.**, 14/26 Henrietta Street, Coventry. Tel.: Coventry 88473.

WANTED, HIRE OR CONTRACT WORK for modern fleet of DW21s, D9s and D8s. Apply: **BRODERICK AND RYAN, LTD.**, 421 Nottingham Road, Ilkeston, Derby. Tel.: Ilkeston 4381/2.

ALLEN OXFORD GRADERS for HIRE. **GRASSPHALTE, LTD.**, Hampton Hill, Middlesex. Telephone: Molesey 4343.

BULK EXCAVATIONS, any quantity quoted for. Own plant and lorries. **COFF AND SON (EXCAVATIONS), LTD.**, Buckhurst Hill, Cheshire, Ascot, Berks. Ascot 1026/7/8.

WANTED, EXCAVATION, SITE CLEARANCE AND DEMOLITION WORK.

R. BARKER (PECKHAM), LTD., New Cross 3337.

MOTOR BOAT OWNERS REQUIRE CONSTRUCTIONAL WORK, ATTENDANCE, PERSONNEL, GOODS TOWAGE, etc. Craft and labour supplied. Apply: **THOMAS BROS.**, 62 Sussex Road, East Ham, London, E.6. Telephone: GRA. 6697/3151.

SITE CLEARANCE, BULK EXCAVATION. **JANES AND CO., LTD.**, Trading Estate, Slough. Telephone: Slough 20361—Ext. 4.

SAM BOOTH, LTD., Perrymount Chambers, Haywards Heath, Sussex. Tel.: Haywards Heath 1126 and 1258. SUB-CONTRACT OR HIRE: D9s, with Bulldozer and Caterpillar 463 Scrapers.

MUD AND WEEDS DREDGED from reservoirs, lakes, rivers and canals.—**BOMFORD AND WILKINS, LTD.**, Dredging and Excavating Contractors, Blinton, Stratford-on-Avon, Warwick. Welford-on-Avon 404.

TURFING, SEEDING, LANDSCAPING, C.E. CONTRACTS. High-class workmanship at reasonable rates. **COWELL AGRICULTURAL CONTRACTORS**, Farington, Preston, Lancs. Telephone: Leyland 21243.

EARTHMOVING, LEVELLING, LAND DRAINAGE, RECLAMATION, etc. Consult the Surface Specialists.—**SURFACE MAINTENANCE SERVICES, LTD.**, 124 Old Church Road, Bournemouth. Tel.: 24673. Branches throughout the country.

TREES, ROOTS OR UNDERGROWTH feature in your contract, we would be pleased to quote for their **ECONOMICAL DISPOSAL.**

BAGSHOT SAWMILLS, LTD., 32 London Road, Camberley, Surrey. Telephone 14.

FOR HIRE, One Drott and Six TIPPER LORRIES. **SITE CLEARANCE.** Direct or sub-contract. **J. W. DOYE AND CO.**, Demolition Contractors, 18 Plumstead High Street, S.E.18, Woolwich 6318.

UPROOTING.—TREES, STUMPS, HEDGES, etc. We have the most experience and all modern equipment.—**T. Southey, LTD.**, Worton, Carnforth, Lancs. Tel.: Carnforth 381 and 382.

T GRADING, SEEDING, TURFING AND PLANTING form part of your CONTRACT, we will be pleased to quote you.—**HOLDRUP**, 139 Bells Hill, Barnet. Telephone 9111.

SHOTBLASTING CAPACITY available for Cement Mixers, Scrapers, Hoppers, etc. **MABEY AND JOHNSON, LTD.**, Marshmoor Works, Hatfield. Tel.: Hatfield 4122.

EXCAVATION SUB-CONTRACTS. Technical staff available to analyse, programme and price complex projects. Particular attention given to finish and completion. **D9, D8, TD18 and TD14 Scrapers, Excavators, Loading Shovels and Lorries** available with competent and imaginative supervision for execution of all work. **DICK WATKIN**, Broadview Farm, Blacknest, Ailton, Hants. Tel.: Bentley 2241.

SPECIALISED EXPLOSIVES SERVICES.— U.K. AND OVERSEAS MOBILE UNITS coverage on ex-service strong points, sea walls and dangerous structures, etc.—**124 Old Shoreham Road, Southwick, Sussex.** Tel.: Southwick 3791 or Shoreham 4193.

CONTROLLED EXPLOSIVES, LTD., specialise in the fragmentation of mass and reinforced concrete inside or outside buildings. Demolition of bridges and chimneys, mass rock trenching, sewage beds, engine beds, etc., and deep drilling for quarries. Particulars from 11 Church Street, Oldbury, Birmingham. Telephone: BROADWELL 3117.

EARTHMOVING, EXCAVATION, CONTRACT OR HIRE. Bulldozers, Scrapers, Traxcavators, Trainers, etc.—**CHISWICK 8511/2, Maldstone 7294/5/6, TRACTORS HIRE (CHISWICK), LTD.**, 300 Chiswick High Road, W.4.

BULK EARTHMOVING, direct contract or sub-contract. Also BULDOZERS AND SCRAPERS for HIRE.—**FRANK R. WALPOLE, LTD.**, 126 Wing Road, Leighton Buzzard, Beds. Leighton Buzzard 351.

BULK EXCAVATIONS AND SITE WORKS undertaken DIRECT OR ON SUB-CONTRACT basis. Quotations given for large or small contracts anywhere.—**S. AND L. BULL BROS., LTD.**, 126A High Street, Winchester. Telephone: Winchester 2264.

ERECTION AND DISMANTLING. Structural Steelwork and all types of Prefabricated Components. Seedy and efficient service.—**ERECTORS**, 80 Bulwell Crescent, Cheshunt, Herts. Waltham Cross 22564.

EXCAVATIONS, SITE CLEARANCES, DEMOLITION AND PLANT HIRE, SUB-CONTRACT WORK WANTED any area.—**D. W. STONE, LTD.**, St. Leonards Road, Hove, 3, Sussex. Tel.: Hove 46396.

SOILING, SEEDING AND TURFING. Site Clearance, Excavation and Levelling Work undertaken in any part of the U.K. at competitive prices.—**GILLIAM, Purlev, Surrey.** Uplands 9227/5.

BULK EARTHMOVING by DW21s, D9s or D8s. **STANTIAN PLANT, LTD.**, Ebbingham Street, Rotherham. Telephone: Rotherham 78271-2.

PAVING AND KERBLAYING REQUIRED. Phone: Sanderstead 6059.

FOR HIRE—MIDLANDS AREA: D4s, 10RBs, COMPRESSORS, DROTS.—**KINGS NORTON EXCAVATORS, LTD.** Telephone: Sedgely 2513.

DIRECTORSHIP

CIVIL ENGINEERING DIRECTOR DESIRES CHANGE. Preferably to expanding company, working or intending to work home and overseas where considerable technical and administrative experience can be advantageously employed. Write Box X.1840, "The Contract Journal."

SALES BY TENDER

COUNTY BOROUGH OF NORTHAMPTON.
REDUNDANT EQUIPMENT.

OFFERS are invited for the FOLLOWING ITEMS of REDUNDANT EQUIPMENT: 1938 Broomwide Compressor and/or 1951 Lewin Mechanical Sweeper. Particulars from Borough Engineer, Guildhall, Northampton, to whom offers should be returned by 16th MAY.

C. E. VIVIAN ROWE, Town Clerk.

BOROUGH OF ALTRINCHAM.

TENDERS are invited for the PURCHASE of a 750-gallon GULLY EMPTIER (Shelvoke and Drewry), registered March, 1959. Overhauled 1956, and retained for stand-by purposes. The vehicle can be inspected during normal working hours at the Town's Yard, Moss Lane, Altrincham, and further information can be obtained from the Borough Surveyor's Office.

Tenders to be forwarded to the Borough Surveyor, Town Hall, Altrincham, enclosed in a plain sealed envelope, by MONDAY 23rd May, 1960, endorsed "Tender for Gully Emptier".

The Corporation does not bind itself to accept the highest or any Tender.

E. GRAHAM THOMAS, Town Clerk.

Town Hall, Altrincham, May, 1960.

INVENTIONS

INDUSTRIAL ENGINEERS OF REPUTE invited in strict confidence to details of INVENTIONS with object of manufacturing and world distribution. Write Box K.L.517, "The Contract Journal."

LAND AND PROPERTY

BUILDING SITE for SALE, Home Counties. Planning consent, 200 residential units. Price £80,000. Write Box L.L.389, "The Contract Journal."

BUSINESSES—SALE OR WANTED

WANTED TO PURCHASE by London plant company, similar organisation in Midlands or Home Counties.—Brief details in first instance to Box X.1790, "The Contract Journal."

PROFESSIONAL SERVICES

TECHNICAL ESTIMATING SERVICES introduced by R. J. CARR. The only service of its kind in the country.—Westleigh House, 42 Coombe Road, New Malden, Surrey. Tel.: Malden 8640.

CIVIL ENGINEERING CLAIMS. Director/Consultant Engineer, with long and varied experience in high-level negotiation of contractors' claims, OFFERS SERVICES on a fee-commence basis. Write Box X.1058, "The Contract Journal."

CLAIMS CONSULTANT provides a CONFIDENTIAL CLAIMS SERVICE covering every type of civil engineering work. Advice on selection of possible claims, formulation, negotiation, etc., in accordance with contractor's individual requirements. Write Box V.1516, "The Contract Journal."

FOR SITE PHOTOGRAPHY AND PROGRESS PICTURES in the Midlands area, contact: **CASTLE HILL STUDIO**, 4 Castle Hill, Waingate, Sheffield, 1. Telephone 29947.

HORTICULTURAL

TOP SOIL.—200,000 cubic yards available, delivered in large and small quantities. Soil supplied on site in approved cases.—**LATHAM AND CO. (CONTRACTORS), LTD.**, Westward House, Guildford Rd., Lightwater, Surrey. Bagshot 2037 and 2400.

A KEEN QUOTATION for your TURFING, A SEEDING AND HEDGING CONTRACTS. London and Home Counties.—**R. J. ENSTONE & SON, LTD.**, Head Office: 34 Alma Rd., St. Albans. (St. Albans 55528.)

TURFING—SEEDING—HEDGING. Quotations for all branches of landscape work, anywhere in the U.K. C.E. contracts a speciality. **WEBSTER BROS.**, Horsforth, Leeds. Horsforth 2364.

MASSEY-FERGUSON 65 TRACTORS for HIRE, also comprehensive range of ATTACHMENTS, including Tipping Trailers, Loaders, Rotavators, and all Land Cultivation Implements, Turf-cutting Machines, etc. C.E. contractor catered for.—**RIINGWAY CONTRACTORS, LTD.**, Horsforth, near Leeds. Telephone: Horsforth 4805.

ROTARY CULTIVATORS available for HIRE or CONTRACT WORK. Grading, Levelling, Earthmoving undertaken.—**JAMES COOPER, LTD.**, 28 Kensington Church Street, London, W.8. Western 3412.

TURVES.—Machine-cut, 3ft. x 1ft., close mown, weed-treated, 60/- per 100. Keen trade rates. We would be pleased to quote for your levelling and laying.—**E. R. RANCE, LTD.**, 24 Sheepcot Lane, Watford. Telephone: Garston 2725.

DIVING

DIVERS IMMEDIATELY AVAILABLE. Welding, cutting, construction, etc. Any part of world. **UNDER WATER WELDERS AND REPAIRERS, LTD.**, Cardiff. Tel. 29631. (After hours: Penarth 58131.)

COMPLETE CONTRACTS UNDERTAKEN. Including the following: Design, Survey, Craft available, Pile Driving, Compressors, Cement and Grouting Machinery, Underwater Cutting, Welding, etc. Divers and Plant hired if preferred. Rates from £7 7s. per day. Immediate and efficient teams available anywhere in the world. Qualified marine surveyor on staff. For Dive Contracts, contact: **THE MARTIN WELDING AND CUTTING CO., LTD.**, Dartford, Kent. Tel.: (day) Dartford 24139; (night) Farningham 2452.

PARTNERSHIP

A B.Sc., A.M.I.C.E., 13 years' civil engineering, considerable capital available, **REQUIRES WORKING PARTNERSHIP** in small or medium-sized building/civil engineering company in Cheshire or N. Wales. Write Box X.1839, "The Contract Journal."

FULLER HORSEY
SONS & CASSELL

AUCTIONEERS AND VALUERS

OF

PLANT, MACHINERY AND
FACTORIES

Since 1807

10 LLOYDS AVENUE

LONDON E.C.3

TELEPHONE: ROYAL 4861

Rothbone

SALES BY AUCTION

IMPORTANT PLANT AND VEHICLE SALE.
By Order of the Secretary of State for War.
E — R

Approximately

1,900 UNITS OF EARTHMOVING, ROAD
MAKING AND LIFTING PLANT, MOTOR
VEHICLES, TRAILERS, MOTOR CYCLES,
ETC.

Also 65 LOTS of PLANT SPARES

including
20 Ruston-Bucyrus 10RB EXCAVATORS: Osgood
EXCAVATOR, rigged Crane and Clamshell Bucket;
Priestman Wolf EXCAVATORS, with Face Shovel,
Backsaver and Dragline Equipment; Ransomes and
Rapier 410 EXCAVATOR: 45 CRANES, by Browning,
Coles, Jones, Morris; Caterpillar D8 TRACTORS;
ROAD ROLLERS: Blaw Knox TOWED SCRAPER;
SHEEPSFOOT ROLLERS: Blaw Knox CONCRETE
FINISHER; DUMPERS: Bedford-Lewin SWEEPER;
TRACTORS: TRAILER-MOUNTED FIRE PUMPS;
Broomwide Diesel COMPRESSORS; and PLANT
ACCESSORIES and SPARES by Caterpillar, Coles, Jones,
Barber-Greene, Ruston-Bucyrus, Ransomes and Rapier,
etc. (including D7 Engines, Power Control Units, Drag-
line and Skimmer Buckets, Starting Engines, D8 Angle-
dozer Blades and Frames, 6-Volt and 12-Volt Batteries,
Metal Truck Bodies and Cabs, etc.); also 300
SALOONS, LIMOUSINES and ESTATE CARS (including
Rolls-Royce Silver Wraith Touring Limousine, 120
Ford Anglias, Populars and Morris Minors); LAND-
ROVERS; JEEPS; Austin CHAMPS, UTILITIES,
COACHES; LOAD CARRIERS, 10cwt.-16 tons, many
fitted with Diesel Engines (including A.E.C. Matadors
and 6 x 6 Refuelers), Diamond T, International KRB
TRACTORS, with 16-ton Tasker Trailers; Leyland
HIPPOS; Mack and Scammell TRACTORS; Thornycroft
Trusty TRACTOR with 14-ton Step-frame Tasker
Trailer; VANS; TIPPERS; TRAILERS; 10cwt.-20 tons
TANKERS, 100 gallons-2,500 gallons; Trailer and
Lorry mounted ELECTRIC GENERATORS (some
230-Volts); and 550 SOLO MOTOR CYCLES.
To be sold by AUCTION by M.O.A. STORAGE DEPOT,
RUDDINGTON, near NOTTINGHAM, on TUESDAY,
WEDNESDAY, THURSDAY and FRIDAY, 17th, 18th,
19th, 20th MAY, 1960, at 10.30 a.m. each day.

WALKER, WALTON AND HANSON
in association with
TURNER, FLETCHER AND ESSEX
and

RICHARDSON AND LINNELL.

For locations, viewing dates and times see catalogue.
Catalogues, price 1/- (P.O.s only) may be obtained
1st May onwards from the Auctioneers' Offices,
Dept. 2, Bvard Lane, Nottingham. Telephone:
Nottingham 54272 (7 lines).

IMPORTANT SALE OF
**BUILDERS' AND CONTRACTORS' PLANT
AND MACHINERY**

To be sold by AUCTION at THAMES DITTON,
MAY 11th, 1960.

Many lots, including:
Rollers; Excavators; Cranes; Bulldozers; Lorries;
Air Tools; Scrapers; Pumps; Numerous Valuable Spares
and Equipment.

Catalogues available shortly from Auctioneers:

NIGHTINGALE, PAGE AND BENNETT.

18 Eden Street, Kingston-upon-Thames.
Telephone: Kingston 3356.

"MEADOWBROOK," UPWOOD, HUNTS.

(Ramsey 3 miles; Huntingdon 8 miles).

Realisation of an

**AGRICULTURAL CONTRACTORS' PLANT
AND MACHINERY**

comprising—

Five TRACTORS (1951 Fowler Challenger III Crawler

Tractor, 1951 Caterpillar D4 7U Tractor, 1952 Fiat

55L Crawler Tractor, Allis-Chalmers T.V.O. Model B

Tractor, 1950 Oliver T.V.O. Model 88 Row Crop

Tractor); MASSEY-HARRIS 726 COMBINE HAR-

VESTER-BEET HARVESTER; Two Smallford Automatic

3-row Potato Planters; Nine Ransomes 2, 4, 5 and

6 furrow Tractor Ploughs; Steam 11-ton Cultivator;

Miles MD3 Mole Draining Plough; Set Pettit Disc

Harrows; Pick-up Baler Reel; BLAW KNOX EARTH-

MOVER SIX-WHEEL LOW-LOADING TRAILER; Sugar

Beet Trailer on pneumatics; Massey-Harris Tractor

Grass Mower; Fuel Tanks; Oil Cabinets with Pumps;

Implement Spares; Triangle A.C. Welder; Wolf Electric

Heavy Duty Drill; Battery Charger; Electric Grinding

Wheel; Soanor and Socket Sets; Engineers' Tools;

and other useful Miscellaneous Effects, which

will be received from Messrs. A. L. Clark and Son

to be sold by AUCTION on the PREMISES on WEDNES-

DAY, MAY 11th, 1960, commencing at 1 p.m. prompt.

On view afternoon previous from 2 p.m. to 5 p.m.

No catalogue.

Auctioneers' Offices at Market Hill, Huntingdon

(Tel. 7 and 402); and at St. Ives (Tel. 2235).

ACCOMMODATION

CARAVANS TO RENT for men with families.

Rent £7 to £17 per month. Delivery anywhere.

LANDSMAN'S SERVICES.

Buckden, Huntingdon. Telephone: Buckden 287.

ACCOMMODATE YOUR EMPLOYEES in a cosy

4-berth CARAVAN, fully equipped with heating,

lighting, cooking and washing facilities. Hire rates

from 50/- per week for four persons. Caravans

distributed anywhere.—**NORTHERN CARAVAN DIS-**

TRIBUTORS, Handforth, Ches. Tel.: Mercury 4235/6.

Advertisements received too late for Classification

BOROUGH OF SOUTHGATE.

FOOTWAY MAINTENANCE, 1960-61.

Contracting paviors and masons interested in CARRYING OUT the RELAYING of approx. 10,000 sq. yd. of ARTIFICIAL STONE PAVING FOOTWAYS and the REINSTATEMENT of PAVING in various ROADS following the erection of about 600 new lamp columns should apply, in writing, to the Borough Engineer and Surveyor, Town Hall, Palmers Green, London, N.13, for further particulars. Tenders for this work must be delivered to the Town Clerk at the above address not later than 9 a.m. on MONDAY, 23rd May, 1960.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13,
May, 1960.

BOROUGH OF SOUTHGATE.

CONCRETE PALISADE FENCING AT TOTENHALL SPORTS GROUND AND BOUNDARY PLAYING FIELDS.

TENDERS are invited from specialist firms for the PROVISION and ERECTION of approx. 470 lin. yd. of CONCRETE PALISADE FENCING to the ABOVE SITES.

Contractors wishing to tender should apply, in writing, to the Borough Engineer and Surveyor for the relevant documents.

Drawings and General Conditions of Contract may be inspected at the Engineer's Office, Palmers Green, N.13, during normal office hours.

Sealed Tenders must be returned to the undersigned not later than 12 Noon, MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13,
May, 1960.

BOROUGH OF SOUTHGATE.

CHAIN LINK FENCING TO TENNIS COURT SURROUNDS AND BOUNDARIES.

TENDERS are invited from specialist firms for the PROVISION and ERECTION of approx. 932 lin. yd. of CHAIN LINK FENCING of varying heights to TENNIS COURT SURROUNDS and various SPORTS GROUNDS within the Borough.

Contractors wishing to tender should apply, in writing, to the Borough Engineer and Surveyor for the relevant documents.

Drawings and General Conditions of Contract may be inspected at the Engineer's Office, Palmers Green, N.13, during normal office hours.

Sealed Tenders must be returned to the undersigned not later than 12 Noon, MONDAY, 23rd May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

GORDON H. TAYLOR,
Town Clerk.

Town Hall,
Palmers Green, N.13,
May, 1960.

BOROUGH OF SURBITON.

CONTRACTS.

The CORPORATION invite TENDERS for the SUPPLY and DELIVERY of LAWN CEMETERY PLATES for the year commencing 1st July, 1960.

Forms of Tender and General Conditions of Contract may be obtained on application to MR. R. THIRLWAY, M.I.Mun.E., M.I.Struct.E., Borough Engineer and Surveyor, Council Offices, Ewell Road, Surbiton.

Sealed Tenders, endorsed "Tender for Lawn Cemetery Plates", to be delivered to the undersigned not later than MONDAY, 16th May, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender, and reserve the right to accept the whole or any part of any Tender.

JOHN H. A. CRUNDELL,
Town Clerk.

Council Offices,
Surbiton, Surrey.

CONTRACTORS' AGENT REQUIRED for the construction of a private estate of about 80 houses in South Devon over a period of about two years. Really, strong experience and salary required, to Box V.1833, "The Contract Journal."

EXPERIENCED AGENTS REQUIRED by contractors specialising in road improvement and sewer works. Permanent position for men able to accept full control through to final bills.—Write, giving full details, to Box V.1828, "The Contract Journal."

CONTRACTORS specialising in road improvement and sewer works REQUIRE experienced FOREMEN and GANGERS for work in London and Home Counties areas. Permanent position.—Write, giving full details, to Box V.1829, "The Contract Journal."

GENERAL FOREMAN REQUIRED for large housing site starting in Stroud middle of the year. This is a staff appointment, and the person appointed will be eligible to join superannuation scheme after a short trial period.

Write Box V.1823, "The Contract Journal."

EXPERIENCED GENERAL LABOURER BUILDERS' FOREMAN REQUIRED. Subsequent staff appointment. Must be mobile.

Write Box V.1824, "The Contract Journal."

TOWER CRANE SALES ENGINEER, with first-class connection and sales record. Knowledge of building construction would be an asset. Good prospects for energetic and conscientious person.—Apply CLIMBING CRANES, LTD., 52/54 High Holborn, London, W.C.1. Tel.: Holborn 0131/2.

CIVIL ENGINEERING FOREMAN REQUIRED, able to use level, set-out and keep records. Only first-class experience need apply. Work includes roads, sewers, foundations and general siteworks. Apply CAWOOD WHARTON AND CO., LTD., 75 Crouch Hall Road, Crouch End, N.8.

CONSULTING Civil Engineers specialising in water and sewerage have vacancies for CIVIL ENGINEERING ASSISTANTS and REINFORCED CONCRETE DRAUGHTSMEN.—Apply to JOHN TAYLOR AND SONS, Artillery House, London, S.W.1.

AREA AGENTS REQUIRED to take charge of gas and water main-invoicing contracts, also sewer contracts. Successful applicants will be required to have a thorough knowledge of contract procedure and preparation of measurements.—Write, stating age, experience, and salary required, to JOHN COCHRANE AND SONS, LTD., Poyle Road, Colnbrook, Bucks.

COUNTY BOROUGH OF BURTON-UPON-TRENT.

HIGH STREET-LICHFIELD STREET RECONSTRUCTION.

The CORPORATION invite TENDERS for the RECONSTRUCTION of approx. 210 yd. of HIGH STREET and 150 yd. of LICHFIELD STREET, including Kerbing, Channelling, Paving, Removal of Tram Rails, Wood Blocks, and Excavation for New Foundations, the Provision of New Foundations, Resurfacing, and ancillary works.

Form of Tender, Bill of Quantities, Conditions of Contract and Specification may be obtained, and the Plans may be inspected on application to the Borough Surveyor, Town Hall, Burton-upon-Trent.

Tenders and documents, in the envelopes provided, should be delivered to the undersigned not later than 5 p.m. on WEDNESDAY, 25th May, 1960.

The Corporation do not bind themselves to accept the lowest or any Tender, and persons tendering must do so at their own expense.

H. T. MEADES,
Town Clerk.

Town Hall,
Burton-upon-Trent,
30th April, 1960.

BOROUGH OF WIMBLEDON.

TENDERS are invited for the SUPPLY and DELIVERY of Three REFUSE COLLECTION VEHICLES, Bedford chassis, crew cab, side-loading.

Forms of Tender and Specification may be obtained from the BOROUGH ENGINEER AND SURVEYOR, Town Hall, Wimbledon, S.W.19.

CRAWLEY URBAN DISTRICT COUNCIL.

PROTECTIVE CLOTHING.

TENDERS are invited for the SUPPLY of the FOLLOWING PROTECTIVE CLOTHING:—

- (a) Bib-and-Brace Overalls.
- (b) Overall Jackets and Trousers.
- (c) P.V.C. Clothing.
- (d) Leather Boots and Shoes.

Forms of Tender may be obtained from the Engineer and Surveyor, Goffs Park House, Horsham Road, Crawley, and should be returned to the undersigned, in the envelope provided, by 15th May, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

R. W. J. TRIDGELL,
Clerk of the Council.

Robinson House,
Robinson Road,
Crawley.

MELTON MOWBAY URBAN DISTRICT COUNCIL.

TENDERS are invited for the SUPPLY and INSTALLATION of SEWAGE PUMPING MACHINERY, electrically driven, with Piping, Valves, Steel Flooring, etc.

The required duties of the principal pumps are:—

Storm Pump, 3,120 gallons per minute against 177ft. head.

Sewage Pump, 1,560 gallons per minute against 77ft. head.

Sewage Pump and Stand-by, 780 gallons per minute against 41ft. head.

The contract also includes two sludge pumps and associated equipment.

Tendering documents may be obtained from the Council's Consulting Engineers, Messrs. W. H. RAADFORD AND SON, 57 Goldsmith Street, Nottingham.

Tenders must be enclosed in a plain sealed envelope, endorsed "Tender for Pumping Machinery—Contract MMS" and delivered at my Office, as under, not later than 12 Noon on WEDNESDAY, 1st June, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. E. BROWN,
Clerk of the Council.

Egerton Lodge,
Melton Mowbray,
Leicestershire.

CONSULTING engineers have vacancies in West of England for ASSISTANTS having some experience of water supply, sewerage and sewage disposal work.

Salary up to £1,000 per annum, according to age, qualifications and experience.—Write with full particulars, to Box V.1721, "The Contract Journal."

CIVIL ENGINEER, with good experience in estimating and planning, REQUIRED in head office of well-known contractors concerned with major civil engineering works at home and abroad. At this stage applicants are requested to give a general outline of their careers as a preliminary to selection for interview.—Write Box V.1839, "The Contract Journal."

MARTIN COWLEY, LTD., REQUIRE immediately the undermentioned personnel to join their expanding organisation on contracts throughout the British Isles, including large motorway contract at Stevenage, Herts.: PROJECT MANAGERS, SENIOR AGENTS, SENIOR and ASSISTANT ENGINEERS, GENERAL FOREMEN, SITE OFFICE MANAGERS, WAGES/COST CLERKS, TIMEKEEPERS/MATERIAL CHECKERS. Applicants must be fully mobile and experienced in the larger type of project.—Apply in writing, with full test details of past career, immediately to 112 Jermyn Street, London, S.W.1.

APPLICATIONS are invited to fill the following vacancies: (a) SENIOR CIVIL ENGINEER, with background of estimating and construction work, with not less than 7/10 years' experience; (b) JUNIOR ENGINEER, with not less than 2/3 years' experience in setting-out and concrete control; (c) SENIOR QUANTITY SURVEYOR, with experience in interim and final accounts, for works of civil engineering construction. All posts carry excellent salaries. Pension and bonus schemes in operation.—Write or telephone for appointment to Contracts Director, LOMOUNT CONSTRUCTION, LTD., 40 Piccadilly, London, W.1.

CIVIL ENGINEERS (Senior and Assistant) REQUIRED by civil engineering contractor, for site duties on important harbour and road construction projects in West Africa.—Write Box C.368 LPE, Romano House, 399/401 Strand, London, W.C.2.

YOUNG ENGINEER (Graduate) REQUIRED for work in London area with major but expanding firm. This permanent position offers very wide experience of all stages of civil engineering contracts. Previous site experience would be useful but not essential. Apply, giving qualifications and experience, to C. J. SIMS, LTD., 2 Victoria Street, S.W.1.

ENGINEER REQUIRED for soils testing and site control of concrete quality. Young graduates wishing to specialise for a few years considered, but older men with general experience preferred.—Apply to TARMAC CIVIL ENGINEERING, LTD., Ettingshall, Wolverhampton.

COVENTRY CORPORATION.

INNER RING ROAD—STAGE II—LONDON ROAD ROUNDABOUT.

TENDERS invited for CONSTRUCTION of DRAINAGE, REINFORCED CONCRETE CARRIAGEWAYS, CYCLE TRACKS, FOOTPATHS and AMENITY WORKS to 240ft. dia. Roundabout and Approach Roads.

Drawings may be inspected and documents obtained from CITY ENGINEER, Council House, Coventry, on payment £5, returnable on receipt of bona-fide Tender by 23rd MAY.

BRECONSHIRE COUNTY COUNCIL.

AMENDED ADVERTISEMENT.

ROADS AND BRIDGES DEPARTMENT.

APPOINTMENT OF DIVISIONAL SURVEYOR.

APPLICATIONS are invited for the APPOINTMENT of DIVISIONAL SURVEYOR in the Built-up Division in Special Grade (£785-£1,070 per annum). Commencing salary dependent on qualifications and experience. Car allowance up to 10-h.p.

Housing accommodation available. Forms from the County Surveyor, Watton Offices, Brecon, to be delivered to the undersigned not later than MONDAY, 16th May, 1960.

M. S. WELLS,
Clerk of the County Council.

County Hall,
Brecon.

MACCLESFIELD DISTRICT WATER BOARD.

APPOINTMENT OF WATER ENGINEER AND MANAGER.

APPLICATIONS are invited for the APPOINTMENT of WATER ENGINEER AND MANAGER to the ABOVE-MENTIONED UNDERTAKING, the statutory area of which comprises the Boroughs of Macclesfield and Congleton, the Urban District of Bollington and the Rural District of Macclesfield.

Applicants should be members of the Institution of Civil Engineers and the Institution of Water Engineers. The salary is £1,950 per annum, rising by four annual increments of £70 to £2,130 per annum, the commencing salary to be in accordance with qualifications and experience.

The appointment is subject to the Conditions of Service recommended by the Joint Negotiating Committee for Chief Officers of Authorities, the passing of a medical examination, and three months' notice on either side.

The appointment is a new one, and the successful applicant will be required to set up, administer and operate a new Undertaking to which statutory duties will be transferred on 1st April, 1961.

Applications, giving two referees, should be sent to me to arrive not later than 18th MAY, 1960.

WALTER ISAAC,
Clerk to the Board.

Town Hall,
Macclesfield.

ENGINEERING ASSISTANT REQUIRED, having experience of civil engineering work carried out by local authorities and contractors. Salary £610-£765, plus weighting of £10-£30. Commencing salary according to age, qualifications and experience.

Applicants for forms from BOROUGH ENGINEER AND SURVEYOR, Poplar Town Hall, Bow Road, E.3. Closing date, First Post, 18th May, 1960.

DRAUGHTSMAN/ESTIMATOR.—Vacancy with makers of chain link fencing, fencing steelwork, and general. Applicants should state age and experience. Commencing salary about £14 per week, according to qualifications. Pension scheme: 5-day week. Free house available.—PROVE BROS., LTD., Rickmansworth Road, Watford.

CONSTABLE HART AND CO., LTD., have vacancies for permanent positions for civil engineering experienced and skilled men: ASPHALT FOREMEN, ASPHALT CHIPPERS, ASPHALT RAKERS, BARBERS, GREENE DRIVERS and SCREW MEN, to work in all parts of the country.—Apply in writing, in first instance, with details of previous experience, to Mobile Department, Constable, Hart and Co., Ltd., Lion House, Richmond, Surrey.

AGENT also SITE ENGINEER and GENERAL FOREMAN REQUIRED for civil engineering works in the London area.—Apply, giving details of experience, and salary required, to LEONARD FAIRCLOUGH (LONDON), LTD., Gordon House Road, N.W.5.

ASSISTANT CIVIL ENGINEER.—Applications are invited from Chartered Civil Engineers with from two to five years' experience, preferably with contractors, for the above appointment. The successful applicant will be required for work either on site or at a branch office in South-western England.

Will be in accordance with qualifications and experience, but not less than £1,000 per annum.—Applications, stating age, qualifications and experience, should be sent to GRAY, CONOLEY AND CO., LTD., Stephenson Street, London, E.16.

TARSLAG, LTD., Midlands Area, REQUIRE ASPHALT and TARMACADAM SUPERVISORS (aged 24-30). Progressive and permanent positions in expanding department for suitable applicants. Superannuation scheme. Vehicle available.—Write in confidence to the Secretary, TARSLAG, LTD., Economac House, Dunstall Road, Wolverhampton.

CHAIN LINK FENCING manufacturers REQUIRE SALES REPRESENTATIVES in various parts of England and Wales who already have experience in selling this type of product.—Please apply, giving full details of age, experience, etc., to CHAIN LINK FENCING, LTD., Kings Langley, Herts.

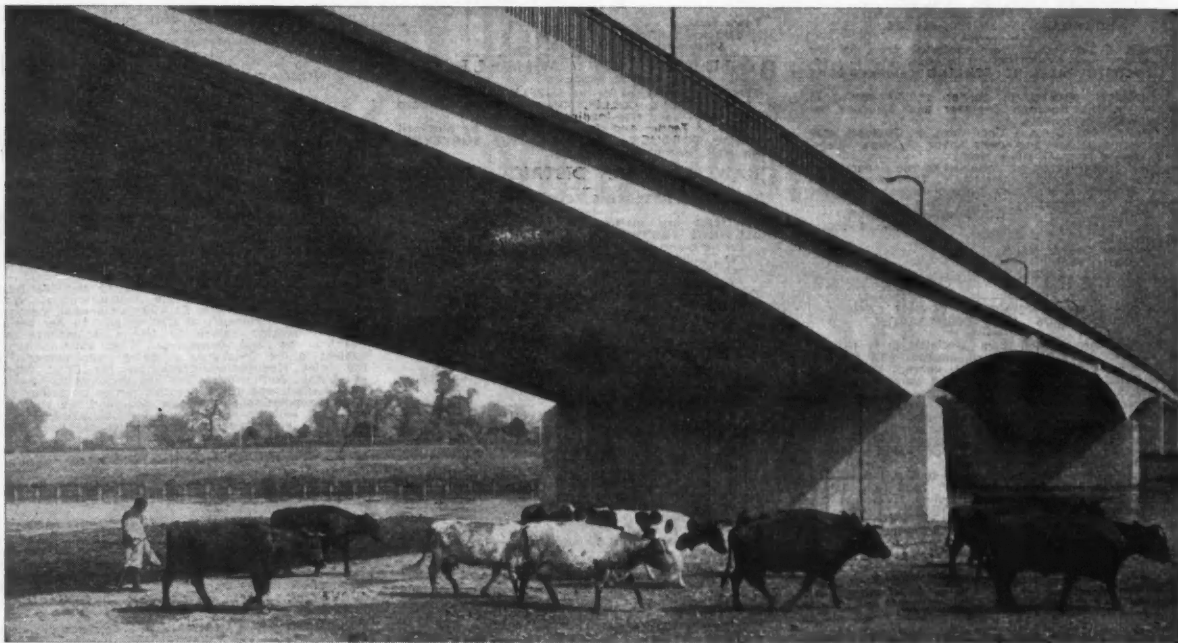
CIVIL ENGINEERS (Junior) REQUIRED for temporary employment of approx. 15 months on pre-construction for large project in Sierra Leone, which includes road, railway, marine, plant and building construction. Successful applicants will be considered for transfer to Resident Engineer's Staff when established. Salary £1,500 per annum plus 5 per cent. bonus for married men, separation allowance of £10 per month and £5 per month for each child. Return passage paid. Free furnished quarters and medical attention. Life assurance and dependants' income schemes.—Write, giving full details experience, stating age, marriage or single and SIERRA LEONE DEVELOPMENT CO., LTD., Dept. C.E.G., City Gate House, Finsbury Square, London, E.C.2.

CIVIL ENGINEERS REQUIRED, preferably A.M.I.C.E. or B.Sc., or both site and office appointments. THE YORKSHIRE HENNEBQUE CONTRACTING CO., LTD., Hennebque House, The Mount, York.

GENERAL ASSISTANT REQUIRED for sales, transport, etc., in North Wales quarries. Age 25/35.—RUTHIN and DENBIGH TARMACADAM CO., LTD., Graig Quarry, Denbigh, North Wales.

No. 17 IN A SERIES SHOWING TECHNICAL DEVELOPMENTS IN CONCRETE CONSTRUCTION

CLIFTON BRIDGE Nottingham includes the longest prestressed concrete span in Britain



The new Clifton bridge has an overall width of 46 ft. 3 in. and its total continuous length, excluding the northern viaducts, is 800 ft. The centre span directly over the River Trent is 275 ft. long, with a span of 125 ft. on either side. Prestressing was by the Magnel Blaton system.

★ Johnsons have had a share in many advanced prestressed concrete projects, in this country and overseas. Write for our illustrated brochure which gives details of many of these outstanding contracts.

Sponsor:

City of Nottingham
City Engineer and Surveyor:
Mr. R. N. Finch, O.B.E., M.I.C.E.

Consulting Engineers:

R. Travers Morgan & Partners

Contractors:

James Miller & Partners Ltd.,
18-20 George St., Edinburgh, 2.

Ever since prestressed concrete construction was first used in this country, designers, architects and civil engineers have specified "Wire by Johnsons." The reason is quality, built up on early experimental work with those specialist designers who studied and worked in the Continental Development of this new building technique. Johnsons have a long record of 'Firsts' including indented wire for greater bonding and coils of 8 ft. diameter, from which the wire pays out straight.

wire was essential -

Johnsons

of course!

THE CONTRACT JOURNAL

INCORPORATING
THE BRITISH CONSTRUCTIONAL ENGINEER AND THE CONTRACTOR

THE CONTRACT JOURNAL

Incorporating
THE BRITISH CONSTRUCTIONAL ENGINEER
and
THE CONTRACTOR
Established 1879

No. 4,219 Vol. CLXXVII May 5, 1960

Editor:

LAWRENCE MCCARTHY

PRINCIPAL CONTENTS

	PAGE
John Sumner's Notebook	548
Radcliffe Committee's Report on the Working of the Monetary System: Views of the N.F.B.T.E. Study Group	549
Pre-planning Speeds Burnley Municipal College Extension	551
Raising the Standard of Efficiency in the Building Industry: I.O.B. Presidential Address	552
Work Programme for the Marble Arch/Hyde Park Scheme: Plans to Limit Noise and Traffic Flow Interference	553
In Parliament	554
Reconditioning of Thirlmere Aqueduct	555
Technical Problems of Land Reclamation now Largely Solved	556
Time and Cost Cut in Thames Jetty Renewal	557
Martin Cowley's £14m. Motorway Contract	558
Late Construction News	558
Machinery Importer's Chairman Attacks Tariff Barriers	559
Men and Movements	560
Multi-storey Prefabrication: New Building Designed for Arcon Group	561
Opening of Heating and Ventilating Research Laboratory	561
Talking of Safety, by "Dragee"	562
The Problem of Corrosion in Cast-iron	563
Trade Section	564
CURRENT CONSTRUCTIONAL ACTIVITIES:	
Projects	568
Contracts	572
Awards	578

Publishers

The Contract Journal Co., Ltd.,
32 Southwark Bridge Road, London, S.E.1.
Telephone: Waterloo 3411 (7 lines).
Telegrams: "Seejasir," Sedist, London.

Subscriptions

"The Contract Journal" can be supplied direct from the above offices. Subscriptions, payable in advance: Yearly, £5 4s. (post free); half-yearly, £2 12s. An order form appears on page 624.

Advertisements

Advertisement rates may be obtained on application to R. Binfield, Advertisement Manager.

A MYTH EXPLODED

THE full text of the N.F.B.T.E.'s reactions to the Report of the Radcliffe Committee on the Working of the Monetary System has now been published. Those who have taken the trouble to plough through the Report's thousand-odd pages will appreciate that its importance, and indeed its danger, as far as the building industry is concerned lies not so much in what it says as in what it omits to say. This is particularly so as regards building activity brought about by frequent changes in official policy towards capital investment.

The building industry, as such, receives little more than a passing reference in the Report, and it is an odd reflection on the way of thinking of Government planners that no individual or organisation representing the industry was asked to give evidence before the Radcliffe Committee. It is not, therefore, surprising that many of the Committee's views could be interpreted, not as an appreciation of the vital role the industry plays in the national economy, but as an argument for the "tap on/tap off" policy that has been such an undesirable feature of building in the post-war years.

One section of the Report could, indeed, be used to justify the reintroduction of the whole rigmarole of building licensing and controls of the war and early post-war years—a nasty thought when governments can change in five years or less. There is certainly nothing in the Report to suggest that the use of the building industry as a regulator of the national economy has serious disadvantages for the industry itself—disadvantages that can reverberate throughout the whole economy.

Particular importance therefore attaches to the analysis, conducted by the N.F.B.T.E. and reproduced in chart form, of the changes in the load on the industry that have taken place since 1946. The drastic reductions in the load that took place between 1947 and 1948, between 1956 and 1958, and, to a somewhat lesser degree, between 1953 and 1954, are unmistakably revealed. Hitherto, complaints by contractors that their order books and jobs on hand were running at a dangerously low level have been met by the response that final output, as measured by the official figures, has rarely been so high. This attitude completely ignores the extent to which the industry's stock of work in hand has been run down, with disastrous consequences on planning, site organisation and production from which the professions, contractors and material manufacturers have all suffered.

By compiling their Index of Work under Construction the National Federation have exploded this myth completely. Should it ever again be suggested that restrictions be applied to building, the industry will have solid facts and figures with which to back its arguments.

This reference to violent and sudden fluctuations in the amount of work on hand is the Federation's most important message; but there are in its comments a number of shrewd observations on other matters relating to the industry. Concern is expressed, for example, that the close linking of mortgage availability and finance to Treasury economic policy, as the Radcliffe Committee envisage, might result in unwelcome and sudden changes in the demand for private house-building. Nor is the Federation at one with the Radcliffe Committee about the ineffectiveness of the Capital Issues Control as it has so far operated; it certainly does not agree with the Committee that any such control operating in the future would require to be tightened up considerably.

In setting up a Study Group to consider the implications of the Report in detail, the N.F.B.T.E. has rendered a valuable service to the industry, and to the country. It is hoped that the Ministries of Works and Housing, and the Treasury, to whom copies of the findings have been sent, will study the Federation's document carefully and, in future, take the various observations into full account. The nature of the building industry and the extent to which other industries are dependent upon it is, it seems, too often overlooked.

John Sumner's Notebook . . .

THE cement industry is doing well and it will do even better in the months ahead. The industry's big problem, however, is selling prices (these are fixed by the Cement Makers' Federation, to which all the manufacturers belong). The existing arrangements for common price levels are bound to be reviewed in due course by the Restrictive Practices Court.

I suspect that one who will defend the arrangements vigorously will be Sir Halford Reddish, the shrewd and sagacious chairman of Rugby Portland Cement Co., Ltd. He believes that the cement industry in this country has a proud record for its price policy. There was no change in the price of Portland cement between July 1, 1957, and February 1, 1960, when prices throughout the country were reduced by 2s. a ton. He considers that concrete construction must be kept competitive against a variety of other building materials for a variety of uses, and that the very nature of his industry precludes it from charging an unreasonable price for its product, even if the keen competition for quality and service which exists between members of the industry did not obtain, and it undoubtedly does.

Sir Halford believes, therefore, that the industry should have every confidence that a realistic understanding of the cement prices system will result in the Restrictive Practices Court giving it its blessing. I think Sir Halford is being a little too optimistic.

ALTHOUGH the Joint Consultative Committee of Architects, Quantity Surveyors and Builders published its Code of Selective Tendering some six months ago and, I understand, representatives of the national Press were invited to the conference at which it was launched, the *Evening Standard* and the *Sunday Express* have, it seems, only just become aware of its existence. The former newspaper, with that flair for over-simplification and superficiality in technical matters which many national newspapers display from time to time, describes the document as a "hush-hush code for contract bids," and also implies in the heading that only builders have circulated it. Mr. David Waterhouse, of the R.I.B.A., who seems to have been interviewed on the subject, was questioned on whether the code establishes a "closed shop," keeping out smaller and newer firms, and whether it would reduce competition between building firms. Mr. Waterhouse seems to have dealt effectively with these points, but my feeling is that the questions would never have been asked if the writer of the *Evening Standard's* article had taken trouble to study the code and what it is seeking to achieve.

A few days later the thinking of the national newspapers on the subject appeared to be demonstrated again in Mr. John Gordon's column in the *Sunday Express*. There it was stated: "Monopoly ideas grow and grow. The National Joint Consultative Committee of Architects, Quantity Surveyors and Builders are agitating that tenders for public authority contracts should be confined to a privileged group." Privileged indeed! Here again I suspect that the author of this note (my friend John Gordon lends his name to the column but does not always, I understand, contribute to it) made little or no attempt to read the code and understand its true purpose—cheaper and more efficient building.

I SEE that Mr. Cecil Setter, the senior vice-president of the N.F.B.T.E., is already making preparations for his expected presidential year in 1961, when he will be fulfilling many national commitments. This, at any rate, is one

explanation, apart from that of strengthening operational activities due to expansion, of changes and reorganisation recently announced by his firm, Stone and Co. (Bristol), Ltd.

THAT the London Master Builders Association would have a good year under the presidency of Mr. E. J. Cook was confidently anticipated by all when he took office in January. But even his closest friends could not have failed to have been impressed by his competent handling of the Association's traditional lunch to the Lord Mayor of London at the Savoy Hotel recently. Naturally on such an occasion Mr. Cook could not overlook the opportunity it presented to remind his audience of the humble circumstances from which many of the Lord Mayor's predecessors had risen. This gave him the chance which I know he was glad to have, to mention the opportunities provided in the building industry for young craftsmen and management students to rise to the highest offices in their firms. "If," he said, "this great country of ours is to be able to meet successfully the fierce and mounting competition from younger nations throughout the world, it is our duty to see that the native ability of our people is developed to its fullest possible capacity."

The building industry, of course, is making monumental efforts to discharge just this duty, and I cannot help wondering why careers masters and others placing young people in employment do not take more positive steps themselves to find out more about building and acquire some of the excellent publications and pamphlets issued by the N.F.T.B.E. If, as it seems, the mountain will not come to Mohammed, then Mohammed must go to the mountain, and I would suggest that the L.M.B.A., which can be quite good at these things when it gets down to them, gives serious consideration to the idea of gathering together a team of members who are good speakers and giving them an intensive course of training on the subject of careers in the industry. At the end of this course of training, which would give close attention to such matters as factual accuracy, speaking ability and the personality and presence of the individual speaker, as well as to general knowledge of the industry at large, the members of this team could be sent to give talks at grammar schools and other educational establishments and carry the industry's flag by assisting those seeking a career in it. I know that some of this is done already but, as with most other worthwhile things in life, suitable training is necessary if it is to be really effective. I think Mr. Cook would agree with this.

SIR HARRY PILKINGTON, who still—I am told—prefers to ride about London on his bicycle rather than trust himself to taxicabs and the uncertainties of the Metropolitan traffic to get him to his appointments on time, retired recently from the Presidency of the National Council of Building Material Producers. Although he has been connected with B.M.P. since its foundation he was not, as he admits himself, among those in favour of setting up such a body in the first instance. He took the view that most industries could manage their own affairs well enough without any council interposing itself between the industry and what it was attempting to achieve. He now admits that he was quite wrong in thinking this way in the early days and he has no doubt at all of the usefulness and importance of a council such as B.M.P.

It would, I suppose, be too much to expect a man of Sir Harry's industrial

stature to retire from such a prominent position without making a few well-chosen comments meriting the attention of all in the industry. His speech at the luncheon following the Council's annual general meeting was lively, thought-provoking and—I am tempted to say—inspiring. He made it quite clear that if the industry wanted the benefits of private enterprise it must be prepared to accept the risks as well. For a long time the dice have been loaded in favour of enterprise. Those who invested in the future have had a good chance to profit from doing so. But the industry must always be prepared to take the risks and the consequences. If, Sir Harry pointed out, it was unwilling to take risks and asked for Government shelter from the cold winds, it was exposing itself to the possibility that such shelter might be extended in a way industry would not want—particularly if some less friendly Government were to find itself in power.

These observations come at an opportune time. The building programme is expanding. More materials are wanted. And they are wanted a lot more quickly and at cheaper prices than contractors are getting them on the sites. Materials producers should heed the remarks of Sir Harry and go in for industrial enterprise in a big way. The time has come—and the Restrictive Practices Court is seeing to it—to forget about trade agreements and price schedules and to supply the assembly side of the industry with what it needs at the prices which the public is prepared to pay. This calls for initiative, enterprise, the readiness to take risks and, above all, the capacity to think big. Sir Harry has done a useful service to his colleagues in the producing industry by pointing the way so clearly.

BRITAIN'S oldest civil engineer, Mr. John A. Warren, has celebrated his 100th birthday. To mark the occasion, vice-president of the Institution of Civil Engineers, Mr. H. J. B. Harding, travelled from London to Glasgow to give him a message of congratulations from the president and Council of the Institution. Mr. Warren, who has been attending his office regularly until very recently, recalls meeting Sir Frederick Bramwell in 1884 and his "parting shot," "If you intend to be a civil engineer, you must make up your mind to be a student to the end of your days." Says Mr. Warren: "I have found his advice to be only too true; perhaps, if he had known that I was to celebrate my 100th birthday, he might have qualified his 'parting shot'."

ATTENDING the recent opening of the Kingsferry Bridge, I was impressed by the arrangements which had been made to ensure the entertainment of guests during the period between their assembly and the arrival of the Duchess of Kent by helicopter. Particularly intriguing was a film concerning the construction of the bridge, which was shown at an improvised cinema on the site. In colour and with a commentary, the 20-minute film has been made for the consulting engineers, Mott, Hay and Anderson, and is a graphic record of the problems of foundation and settlement which had to be overcome in the project.

£4M. LUTON HOSPITAL DEVELOPMENTS

The North West Metropolitan Regional Hospital Board expects to invite tenders in June for the erection of a single-storey casualty department and twin theatres, a five-storey block containing wards and X-ray department and two link blocks of six and two storeys, respectively, joining the five-storey block to the existing building at the Luton and Dunstable Hospital, Dunstable Road, Luton.

As officially announced on page 533, contractors wishing to tender for this £4m. project are invited to submit their names for inclusion on a selected list of tenderers.

RADCLIFFE COMMITTEE'S REPORT ON THE WORKING OF THE MONETARY SYSTEM

Views of the N.F.B.T.E. Study Group

AFTER the publication of the Report of the Radcliffe Committee on the Working of the Monetary System, the National Federation of Building Trades Employers appointed a Study Group to examine and report on the implications of its contents so far as they affect, or are likely to affect, the building industry.

Following is the text of the Study Group's report, copies of which have been sent to the Ministry of Works, the Ministry of Housing and Local Government and the Treasury.

Introductory

The Radcliffe Committee were appointed by Treasury Minute dated May 3, 1957, "to inquire into the working of the monetary system, and to make recommendations." It reported in August, 1959.

The Committee were primarily concerned with examining the way in which the monetary and financial system works, and with suggesting improvements. In so far as they were concerned with future monetary policy, they confined themselves to stating five major objectives, not necessarily compatible with each other, with which the N.F.T.B.E. agrees. These objectives are:

- a high and stable level of employment;
- "reasonable" stability of purchasing power;
- steady economic growth;
- some contribution implying a margin in the balance of payments, to the economic development of the outside world;
- a strengthening of London's international reserves.

The attainment of these policies by means outside the monetary system was largely beyond the Committee's terms of reference. In their report, the Committee therefore dealt mainly with Bank Rate, liquidity and related matters.

The Committee were of the opinion that the economy of the United Kingdom during the 1960's will resemble that of the 1950's more than that of any earlier period. They were, therefore, more concerned with the danger of inflation than with that of mass unemployment. To control inflation and achieve the other objectives, the Committee envisage the possibility of a three-stage control over the economy.

In "normal" conditions, it is suggested, the authorities can rely on manipulation of interest rates and their influence over the general liquidity of the financial system, through debt funding and similar operations, to keep the economy on an even keel. This is Stage I.

When the financial system becomes so liquid that there is a danger that "normal phase" devices will not suffice to keep demand suitably restrained, measures would be introduced designed to mop up the excess liquidity of banks and other credit institutions such as the building societies; if necessary these measures would be supplemented by direct controls (including possibly, controls on building). This is Stage 2.

Stage 3 is reached when headlong inflation is threatened. The authorities would then resort to directional quantitative credit restrictions: directives to the banks and other institutions to limit credit creation, severe quantitative restrictions on capital issues, and terms control of hire purchase.

Naturally, all these measures will affect industry, and the Committee referred to a number of matters of direct concern to the building industry, notably building licensing, building societies, capital issues and bank advances. As there is a certain amount of ignorance about the part which

the industry plays in the social, industrial and commercial life of the country, our observations are prefaced by some general comments on its size and scope.

The Building Industry

Building and contracting in Great Britain employs directly 1,500,000 persons—more than any other single industry. Included in this total are over 500,000 skilled craftsmen. Taking into account the winning of the raw materials, the transportation, processing and assembly involved in producing a building, together with the allied professions, and the manufacture of furniture and fittings for the completed structure, some 3,000,000 people—or more than one eighth of the employed population—owe their livelihood directly or indirectly to building work.

but the N.F.B.T.E. is particularly anxious that those concerned with our economic destiny are aware of the effects of their actions on the health of an industry which requires long-term confidence in order to realise its full potential. We do not wish to be accused of being unrealistic, nor do we in any respect wish to contract out of our obligations as a major industry.

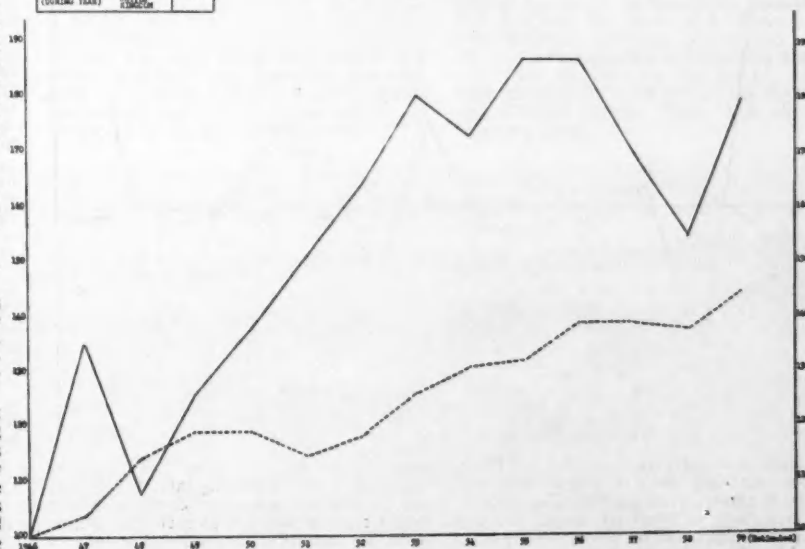
It was because the N.F.B.T.E. realised that many of the matters considered by the Radcliffe Committee had in the past, and will have in the future, a direct bearing on the well-being of the industry, to an extent not readily understood by many outside its ranks, that it decided to set up a Working Party to express its views on the report of the Committee.

An undesirable feature of the post-war period has been the considerable fluctua-

KEY	
NEW WORK UNDER CONSTRUCTION (AT END OF YEAR)	INDEX
ALL WORK CARRIED OUT (DURING YEAR)	INDEX

WORK UNDER CONSTRUCTION & CARRIED OUT
INDICES 1946 = 100

CHART A



Moreover, the building industry accounts for a larger proportion of capital investment than any other. Each year some £2,000m. is invested in building works of all kinds; almost half of this investment is on behalf of Government Departments and other public bodies. £1,500m. is spent on new buildings: £600m. for new dwellings, £130m. for educational buildings, £150m. for industrial buildings, warehouses and offices, £40m. for mining, £227m. for the distributive and other services, £120m. for gas, electricity and water, £44m. for the railways, £60m. for roads and public lighting; and so on. This accounts for approximately half the country's capital investment programme annually.

It is therefore inevitable that the industry should be considerably influenced by the economic and fiscal policy of the government of the day. Its responsibilities are naturally commensurate with its size

tion in the demand for building work—particularly new work—from year to year, brought about by sudden changes in Government policy. It is doubtful whether the extent of these fluctuations in the industry's load is fully appreciated since it is not fully reflected in the published official figures.

The most recent example resulted directly from the Government's policy of credit and capital expenditure restriction starting in 1956. In the table below, an Index of Work Under Construction, based on the number of houses, area of factory space, etc., actually in hand, compiled by the Federation, is compared with the Index of Industrial Production as it applies to Construction (the official figures hitherto accepted as a criterion of work level). It will be seen that, whereas the latter remained almost steady between 1956 and 1958, the volume of all work under con-

VOLUME OF WORK UNDER CONSTRUCTION AND CARRIED OUT
(1955=100)

Year	Work Under Construction Great Britain		Industrial Production (Construction) United Kingdom
	New Work	All Work	
1955	100	100	100
1956	99	99	106
1957	89	91	106
1958	82	86	105
1959	92	93	111

struction fell by 14 per cent. Over the same period, moreover, the volume of new work under construction fell by 18 per cent.

That the experience of 1956 to 1958 was not an isolated case is shown by Chart A. Here, from 1946, an index of the load of new work is compared with the index of industrial production. The considerable difference in the range of fluctuation shown by the two lines is evident. This difference is even more clearly demonstrated on Chart B, which shows the deviation in each case from a three-year moving average. Reliable data for repairs and maintenance work in hand is not available over the whole period but the figures for new work are, of course, of primary importance.

The results of violent and sudden variation in the amount of work on hand, particularly of new work, are serious alike for contractors, material manufacturers and the allied professions. Faced with uncertainty, a contractor is unable to plan his work to make use of the full potential of the plant, materials and skills available. Labour turnover, already high for reasons

only natural that manufacturers should restrict their production to match the foreseeable markets; but, by so doing, their production costs are likely to be higher, and the flow of materials to the site irregular.

Some changes in the demand for building work are inevitable, but in the interests of efficiency and costs generally, it is essential that the industry should have adequate warnings of any change in Government policy towards capital investment in building works, and that such changes should be as infrequent and as gradual as possible consistent with the balance of the economy as a whole. It is appreciated that this may entail an extension of the Government's economic forecasting services, particularly as regards the longer term.

The Radcliffe Committee do not specifically recommend physical controls on building as a method of regulating the economy generally—direct controls, they state, are outside their terms of reference. But they nevertheless go so far as to sug-

stopped in the course of erection, by the time the control is established and working, either the inflationary spiral is well out of hand or else the damping down of building demand takes place after it is needed thus postponing the subsequent expansion.

Building control is not capable of delicate adjustment, and in so far as there is a considerable volume of constructional work (rehousing, roads, etc.) which will have to be carried out as soon as is possible without detriment to the economy, the fluctuation and uncertainty that it causes will disrupt the rhythm of the industry and increase the country's ultimate spending on building.

Building Societies

In the light of this we are also concerned about the Radcliffe Committee's references to building societies. Since the building societies are responsible for such a large and sensitive part of total net investment, the authorities should, the Committee argue, be prepared to strengthen their influence over them.

No doubt the Building Societies Association will be considering this suggestion in detail; but we fear that the linking of mortgage availability and finance closely to Treasury economic policy, as the Committee envisage, could result in itself in unwelcome and sudden changes in the availability of finance for private house-building.

Capital Issues and Bank Advances

We do not agree with the Committee that the issues control operating on a qualitative basis until recently was negligible to the point of irrelevance. Our information is that, as far as building is concerned, the control of capital issues has been highly restrictive, particularly as it affected major private construction schemes. Any undue tightening of the control, by placing it on a quantitative basis, as suggested by the Committee in certain circumstances, would, we feel, increase the severity of the fluctuations in the industry.

On the other hand we welcome the Committee's recommendation that the banks should seek to assure a prospective borrower that a loan for medium or long-term purposes will not be prematurely or unreasonably recalled; or alternatively, that a formal term loan might be considered.

The views of the National Federation of Building Trades Employers may therefore be summarised as follows:

- (a) The building industry, as a major industry, wishes to make its full contribution to the national economy. But all the experience of recent years shows that marked and sudden changes in the demand for building work caused directly by Government action have harmful effects on building efficiency and productivity, and hence on the cost of building to the community. An all too common fallacy is that building work is like water that can be turned on and off with a tap.
- (b) Because of the nature of new building work there would be considerable gains in efficiency if the industry could see a few years ahead with some degree of certainty, and that the industry should therefore, be given more adequate warnings of changes in public demand for building works.
- (c) An impartial investigation would show that building licensing, mooted by the Radcliffe Committee, and other direct controls over the whole volume of building work, other than those of the crudest type and inadequate in operation, are not easy to establish and administer.
- (d) The extension of Treasury control to building societies and the type of control of capital issues recommended by the Radcliffe Committee, could, if our earlier warnings are not heeded, result in more severe fluctuations in the demand for building work.

inherent in construction, increases. Plant, which can only show a proper return if fully employed, stands idle. The average building firm is relatively small, and not financially equipped to withstand repeated shocks. The ability of the industry to obtain the capital necessary for its progressive development depends upon the public regarding it as a reliable investment.

The effects of the credit squeeze and other restrictive measures in 1956 and 1957 resulted in a serious drop in the number of new recruits to the industry. They interfered with the training of future craftsmen, executives and trainees to the point where employers were discouraged from taking on more juniors, and were in fact compelled against their will to reduce the numbers trained under apprenticeship agreements. This is shown by the reduction since 1956 in the number of apprentices newly indentured under the industry's scheme. In 1956 the number was 9,830; in 1957 it fell to 8,140 and in 1958, 7,552. During 1959 yet a further drop was recorded, to 7,244, although building activity had then started to expand again.

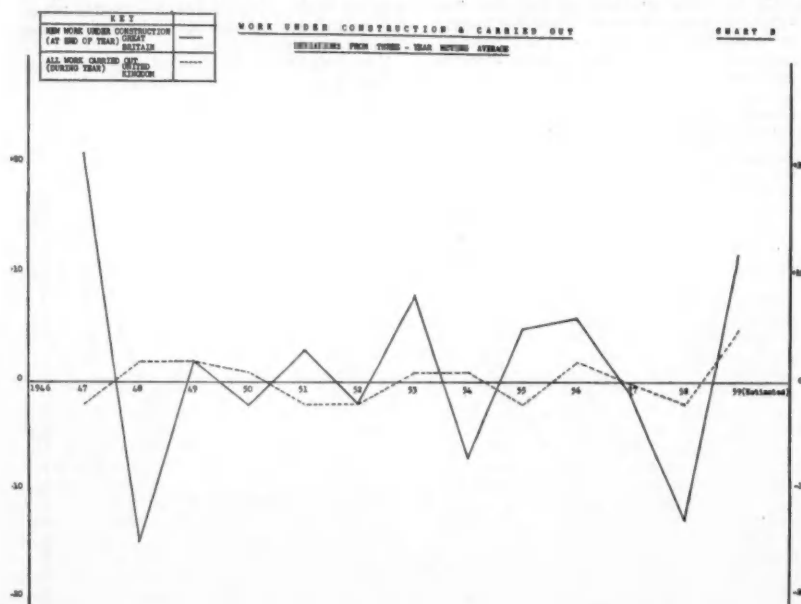
The same considerations apply to the professions allied to building and to the producers of building materials. An architectural office can be organised in two ways, either (a) by taking on or discharging staff as demand fluctuates, or (b) by so planning the work that peak periods for staff are staggered. Alternative (a) is obviously the more costly and inefficient, but method (b) can only be applied when the overall amount of work is adequate, and can be gauged well in advance. Similarly, it is

gest that the possibility of building licensing is worth looking into: "... there are particular selective controls which could restrain demand at such vital points as to be useful in influencing the state of the economy as a whole.

"Of these controls, the control of building appears worthy of first attention. Although having the drawbacks common to all measures of compulsion, it can be reasonably administered by simple arrangements grafted on to the permanent machinery of central and local government, and it can be confined to the larger transactions consistently with real impact on the pressure of demand."

It must be pointed out that building controls are far from being simple to administer; during and immediately after the war they called for the employment of a large number of officials, and many of the drawbacks of bureaucratic control were evident. The issue of licences and permits caused delays and uncertainties which were inimical to efficiency and made pre-planning of jobs impossible, as well as creating a wasteful expenditure of clerical manpower in builders' offices. In addition, they fostered a highly undesirable black market in building work.

Moreover, a major distinction between the products of the building industry and those of almost any other major industry is the relatively long period that must normally elapse between the start and completion of a building project. Except in relation to the smaller projects, the cutting down of building work is slow to take effect—indeed, unless buildings are



WORK UNDER CONSTRUCTION & COMPLETED
DEVIATIONS FROM THREE-YEAR MOVING AVERAGE

CHART A

PRE-PLANNING SPEEDS BURNLEY MUNICIPAL COLLEGE EXTENSION

PRE-CONTRACT planning and development of the project before work began on the site has been instrumental in completing the construction of extensions to Burnley Municipal College several months ahead of the scheduled date.

The extension, which was opened recently, includes laboratories, workshops, dining hall and kitchen, and forms the first phase of a programme of extensions to be carried out at the college.

An important feature of the scheme was the collaboration between contractors and the architects in the Borough Surveyor's Department, and discussions at the advance planning meetings ranged from major points such as the type of framework to be used for the buildings to details such as the selection of timber mouldings and skirtings.

Building Layout

The site area adjacent to the existing college building is extremely restricted and has had a dominant influence on the layout and general design of the new building.

The first building consists of structural steel framed single-storey building department workshops, with large timber-framed windows, placed at the extreme end of the site away from the existing college buildings. Access for delivery of materials and removal of building rubbish from the workshops and for delivery of fuel oil to the heat-

ing system boilers passes under the three-storey main block to the building department yard, which is screened from the east to preserve the amenities of a nearby park.

Apart from the workshops, which are for plumbing, joinery and plastering, there is also a large brick erection shop capable of housing very large practice structures. Stores to these workshops for materials and tools are centrally but conveniently placed, and there are loading bays for delivery of materials and ramped access to the workshops.

There is a link between the workshops and the three-storey block which is a brick-clad, precast concrete framed building with natural stone facing panels and precast sills. This building is 150ft. long, made up of 15 10ft. bays with an overall depth of 34ft. The classrooms and laboratories have plastered ceilings and walls and Granwood block floors.

The upper two storeys of the three-storey block contain drawing offices, building science laboratories, a materials reference room and staff accommodation.

Kitchen and Dining Hall

A third building is a brick built single-storey refectory block with kitchen, cold storage and food preparation rooms and main dining hall. It is isolated at this stage from the building department and the existing college, but it is proposed that it will be linked by further building later.

In this block is a kitchen and ancillary stores suitable for the provision of 500 meals and snacks and a dining hall capable of seating 250 people. The dining hall has a mechanical ventilation system, air being drawn through grilles in the ceiling and ducted to the outside. This ducting has been formed in the hardwood slotted ceiling which is a special decorative feature in the design of the hall.

Hardwood has been used throughout this building for the floor, window frames, cladding to structural frame and for the ceiling.

All the roofs to the new extensions are finished with copper incorporating a system of insulation.

The heating system in the building department is by an oil-fired boiler using forced air cabinet heaters. In the refectory the heating is by electrically heated forced air blowers.

Architects and Contractors

The borough engineer to Burnley Borough Council is Mr. A. G. Richardson, A.M.I.C.E., M.I.Mun.E. Mr. F. Staziker, L.R.I.B.A., chief architectural assistant, Mr. A. Close, Dip.Arch., A.R.I.B.A., principal assistant architect (education), and Mr. E. C. Parry, senior architectural assistant, were involved in the design. The main contractors were Holland & Hannen and Cubitts (North West), Ltd., Bromborough, Ches.



The three-storey main block and building department workshops

BRISTOL HOUSING POSITION SIMILAR TO 1939

BRISTOL'S housing manager, Mr. J. B. Abbey, reports that the city has now overcome the problems presented by the war regarding rehousing, and is now in a position similar to that of 1939. Fifteen years of concentrated building has reduced the housing waiting list from 46,000 in 1946 to 5,748 in December last year.

But Mr. Abbey points out, in a survey recently presented to the Housing Committee, that whereas in 1939 the Corporation owned or had under construction

15,000 dwellings, the Committee now administer 40,000 dwellings.

The three-year capital expenditure programme recently approved by the Council envisages 3,000 new dwellings being built by the Housing Committee during that time, with emphasis on the central area redevelopment. This would increase each year until by 1963 building on outlying estates would virtually have ceased. With a production of 1,000 new houses in 1960 and 1,400 re-lets, it should be possible to

house 2,400 families in the city without assistance from private building.

"If the county district councils provide further assistance with overspill, and voluntary migration to new private enterprise houses continues at the same rate, it may well be that a gross total of well over 3,000 families will find new accommodation during the year," says the manager.

"With a little assistance from private enterprise within the city the number might easily be increased to 4,000 and at such a rate of progress the problem would be well in hand before the three years' programme is completed."

RAISING THE STANDARD OF EFFICIENCY IN THE BUILDING INDUSTRY

I.O.B. Presidential Address

IN his inaugural address at the annual general meeting of the Institute of Builders, held in London yesterday, the re-elected president, Mr. G. O. Swayne, said that the efficiency of the building industry employing some 1,250,000 operatives, was a vital factor in the national economy, the cost of building being a charge on industry and the community at large.

"The output of many modern factory industries has greatly benefited from the introduction of mass production," said Mr. Swayne, "but the building industry, by the very nature and variety of its work, cannot benefit from this technique to the same degree, for its work-place constantly changes from one site to another and its inherent craft processes depend on manual skills that the machine has been unable to replace. There is still much to be done, however, to secure more general adoption of the most efficient methods of practice, by building firms of all sizes and a prolonged effort is still needed to raise the standard of technical-managerial training and education.

Prime Purpose of the Institute

"These are truisms of which we do well to remind ourselves from time to time and it is, and always has been, one of the prime purposes of the Institute of Builders to promote and stimulate the improvement of the technical and general knowledge of persons engaged or about to engage in building.

"An impartial review of the activities and achievements of the Institute before and since its incorporation, not only in the field of building education but in such important matters as equitable conditions of contract and sub-contract and a standard method of measurement, would reveal a consciousness of its unique opportunities as a professional institution to influence the well-being of the industry.

"Some 10 years ago the Institute was under a heavy fire of criticism from its

own members, from the industry at large, from educationalists and from the technical press, for its general inertia. Much of this criticism was deserved but the critics had forgotten or did not know that, between the two Great Wars, the Institute had virtually founded higher building education as we know it today, that up to 1947 it had examined 4,000 candidates for its own Diplomas and 16,000 candidates for National Certificates and Diplomas, and had given educational advice to many thousands more. Nor was it appreciated that any ineffectiveness was largely due to a lack of understanding of the purposes and limitations of a professional institution and to lack of support, both numerical and financial, in its strivings to build up educational and ethical standards. It was urged to put its house in order, to broaden its membership conditions, to end 'special case' entry, to modernise its examination syllabuses with a greater accent on management, to publicise its purposes and intentions, to decentralise its activities and to inaugurate a Board of Building Education.

"In five years it has accomplished most, if not all of these things. For the first time in its history its finances are adequate for immediate needs, its new examination structure and syllabuses have been unanimously welcomed and applauded and students are flocking to take its examinations. It now remains to be seen whether the Institute receives the recognition and support it was promised and deserves as the pre-eminent professional institution in building."

Election of Officers

In addition to the president, the following retiring members were unopposed candidates for re-election for a second year of office: Vice-presidents—J. Gowing Middleton (Great Yarmouth), Harvey G. Frost (Bury St. Edmunds), P. F. H. Wykeham (Rugby), and D. C. C. Roberts (London); hon. treasurer—H. S. Oddie (Preston).

LONDON-BIRMINGHAM MOTORWAY SYMPOSIUM

OVER 700 engineers and others concerned with road problems in Britain were expected to attend a Symposium on the London-Birmingham Motorway which was held this week at the Institution of Civil Engineers in London.

The five Papers presented were as follows: "The General Motorway Plan," by J. F. A. Baker, chief engineer, Ministry of Transport; "Economic and Traffic Studies," by Sir William Glanville, director of road research; "Luton-Dunchurch: Design and Execution," by Sir Owen Williams and O. T. Williams, partners, Sir Owen Williams and Partners, consulting engineers; "Luton-Dunchurch: Construction," by W. K. Laing, chairman, B. H. Broadbent, chief civil engineer, and J. M. Fisher, technical advisor, John Laing and Son, Ltd.; "St. Albans By-pass," by C. H. folliott, county surveyor of Hertfordshire, and T. McMillan, managing director, Tarmac Civil Engineering, Ltd.

Many Lessons Learned

Mr. Baker lists these major items of work connected with the 74-mile stretch of the motorway, which was completed in 19 months at a cost exceeding £20m.: 183 bridges, 12 flyover junction and 100 culverts, a total excavation of 14,500,000 cu. yd., 640 acres of carriageway, 500,000 tons of asphalt surface, 350,000 tons of reinforced concrete in carriageways, 1,850,000 tons of lean concrete base and 190 miles of fencing.

He writes: "No doubt, many of the lessons learned from the construction of a road scheme of this magnitude in so short a period will be pinpointed in the Papers on design and construction forming part of the Symposium."

Among his observations he mentions the problem still to be solved regarding adequate compaction behind bridge abutments. "Despite care in construction it is impossible to prevent minor settlement," he says.

Sir Owen Williams and his son state that the length of the route from north of St. Albans to the Rugby-Northampton Road, A.428 near Crick, with the spur south of Rugby, is 55 miles, but before the route could be finally fixed about 200 miles had to be surveyed.

Horizontal Curvature

They also mention that horizontal curvature was not introduced—as frequently stated—to avoid monotony. "The main considerations leading to choice of alignment are to provide as direct a route as possible with due regard to economy of earthworks, suitable locations for crossings of existing roads, railways, rivers, canals, and property." They add that bearing all this in mind it would seem difficult in Britain to obtain a straight of sufficient length to be monotonous.

A full report on the meeting will be published in the Journal next week.

WINDSCALE CONTRACT FOR MITCHELL CONSTRUCTION

The Mitchell Construction Co., Ltd., Peterborough, have been awarded a contract for the construction of a second primary separation plant at the U.K.A.E.A. Windscale Works at Sellafield, Cumberland. The contract covers the main civil engineering and building works for the separation plant, which will service fuel elements received from the new civil atomic power stations.

The contract includes the main building, which is of mass concrete construction and of considerable complexity, involving the use of special concreting techniques, an associated office block, sub-stations and other ancillary structures.

Work will commence immediately and will take approximately three years to complete.

WIMPEY SECURE I.C.I. CONTRACT AT SEVERNSIDE

Imperial Chemical Industries, Ltd., have placed a contract with George Wimpey and Co., Ltd., for the initial civil engineering work at Severnside Works in South Gloucestershire, where it is proposed to build a new ammonia plant at a cost of upwards of £10m., and plants to make ethylene oxide and ethylene glycol, costing £5m.

WAR DEPARTMENT SCHEDULE OF PRICES

Revised adjustment percentages to trade sections of the War Department Schedule of Prices for Works Services (1948) applicable to War Department Term Contracts (other than Term Contracts for Painting and Decorating Services), also Measurement Contracts, and effective from April 18, 1960, are as follows:

Section	Trade	Percentage Addition
1	Excavator	171
2	Concretor	130
3	Bricklayer	127
4	Asphalter	71
5	Drainlayer	101
6	Mason	124
7	Pavior and Roadmaker	82
8	Roofer	108
9	Asbestos-Cement Goods	106
10	Carpenter and Joiner	105
11	Ironmonger	98
12	Ironfounder, Smith and Structural Engineer	150
13	Gasfitter	134
14	Plasterer, Floor and Wall Tiler	121
15	Plumber	114
16	Electrician	105
17	Glazier	132
18	Painter and Decorator	131
19	Hutting	82

LONDON SAFETY GROUP ELECT NEW OFFICERS

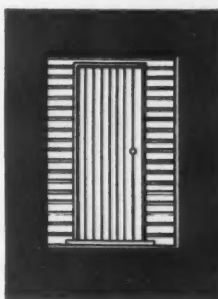
At a recent annual general meeting of the London Building and Civil Engineering Contractors Accident Prevention Group, Mr. Guy Barker, of Howard Farrow, Ltd., was elected as chairman for the forthcoming year, and Mr. B. A. C. Whyte, of Woodall Duckham, Ltd., became vice-chairman. Both the secretary, Mr. E. E. Batty, of Holland & Hannen and Cubitts, Ltd., and the treasurer, Mr. G. H. Binks, of Babcock and Wilcox, Ltd., were re-elected.

The new committee for 1960-61 now comprises the following: Mr. Hayward (John Laing and Son, Ltd.); Mr. Beaumont (Beaumont, Ltd.); Mr. Edwards (S.G.B., Ltd.); Mr. Forrest (W. C. Youngman, Ltd.); Mr. Harris (Peter Lind and Co., Ltd.); Mr. Walters (Dawnays, Ltd.); Mr. Bateman (L.C.C.); and Mr. Vickery (Taylor Woodrow, Ltd.).

HARDUN'S

Universal
SECTIONS

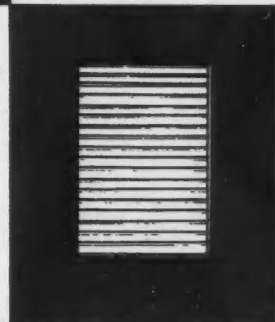
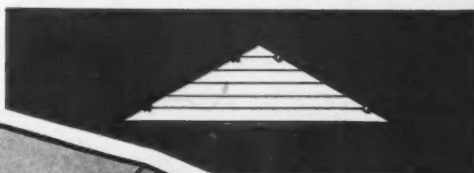
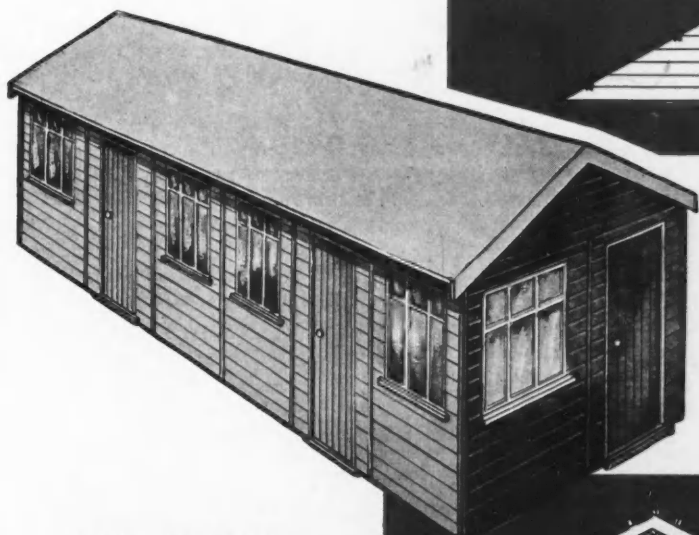
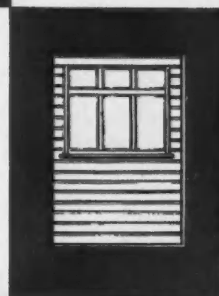
for 10ft and 14ft 9in width buildings



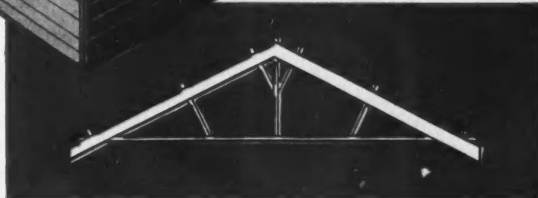
AS EASY TO ORDER

AND ERECT AS

A·B·C

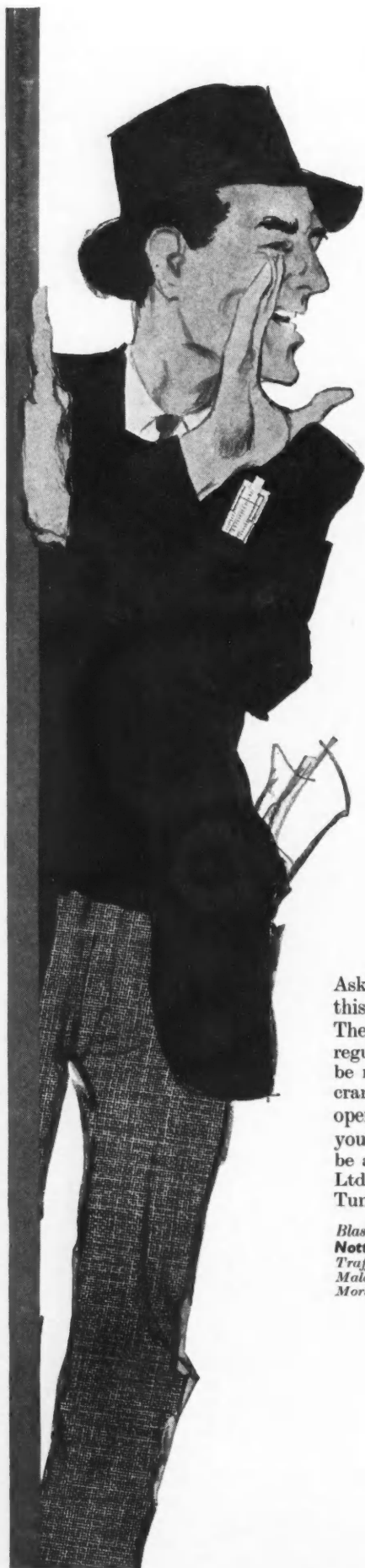


**SEND FOR FULLY
DESCRIPTIVE BROCHURE**



HARDUN & SONS LTD.

HORTON ROAD WEST DRAYTON MIDDLESEX TEL WEST DRAYTON 3088-9 & 3761-2



“Get the

Lifts, shifts and slews
almost anything
almost anywhere

TWO-TON TUNNY MOBILE CRANE

Ask the man on the job about the Tunny. He'll tell you that for its size and weight, this is the hardest-working crane that ever drove on to the job. *Drove on* is right. The Tunny can be driven at 30 m.p.h. or more with perfect safety wherever traffic regulations permit. That cuts transport time — and waiting costs. The Tunny can be mounted on almost any lorry or four-wheel drive vehicle. Goes where other cranes cannot go. *Easy is right, too.* Any competent lorry or tractor driver can operate the Tunny easily — and safely. Maintenance is simple — and quick. If you have hard work to be done — go and try the TUNNY. A demonstration will be arranged wherever you want it. Write for complete details to Tunny Cranes Ltd., “Abbey House”, 2 Victoria Street, London, S.W.1. or ask your nearest Tunny Distributor:—

Blashford Motors (Ringwood) Ltd., **Hampshire.** Tel: Ringwood 602 • R. Cripps & Company, Ltd., **Nottingham.** Tel: Nottingham 71161 • R. Cripps & Company, Ltd., **Salford, 5,** Lancashire. Tel: Trafford Park 1658 • C. E. M. Day, Ltd., **Swansea.** Tel: Swansea 22438 • Ernest Doe & Sons Ltd., **Maldon, Essex.** Tel: Hatfield Peverel 311 • Fewsters Ltd., **Blaydon, Co. Durham.** Tel: Blaydon 342
Morton's Garage Ltd., **Coventry,** Warwickshire. Tel: Coventry 53351.

TUNNY Fred!''



CROSS-COUNTRY MOBILITY. See how easily the Tunny can be hauled across difficult terrain by tractor or any four-wheel-drive vehicle. Special trailer mounting is exclusive to the Tunny. Mounted on a lorry the Tunny can be operated by any competent driver. Lifts, shifts and slews from this position.

STERLING SAFWAY

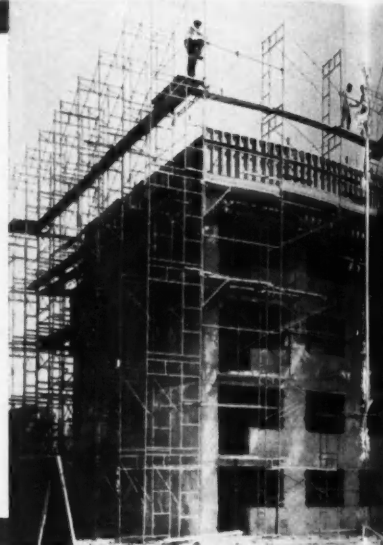
FASTER

HOIST TOWER

Illustration on left is of a tower for a centrally slung hoist.

Contract by Reema Construction Ltd., Salisbury, for 14 Blocks of Multi-storey Dwellings for the Leeds Corporation. Architect: The late R. A. H. Livett, Esq., O.B.E., A.R.I.B.A.

Illustration below shows the full access that can be given at any level to suit scaffold.

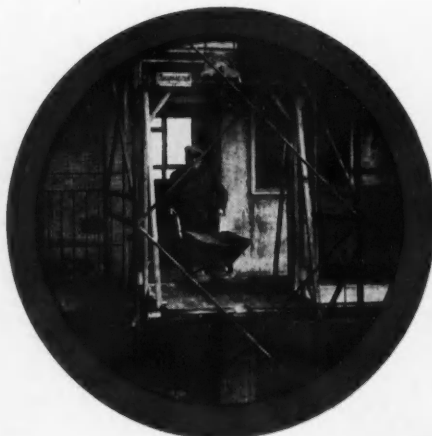


Photograph by permission of J. G. Ave, Borough Engineer and Surveyor, H. G. Messrs. G. Wimpey & Co. Ltd.

The first fabricated Hoist Tower produced in this country. It is especially designed to give the following advantages:-

- 1) Quickest erection — 50 ft. in 2 hours complete.
- 2) It is designed for unskilled labour.
- 3) Greater Stability and Strength.
- 4) Only 5 component parts — No loose fittings.
- 5) It is the COMPLETE answer and includes self-locating boards — Wire mesh panels — manually operated gates at base — safety gates at working lift — will suit any normal type of hoist.

USE SAFWAY
for



Perfect
Working
Conditions

STERLING

LONDON

Idesleigh House,
Caxton Street, S.W.1.
Tel. 4-220-2015 (3 lines)

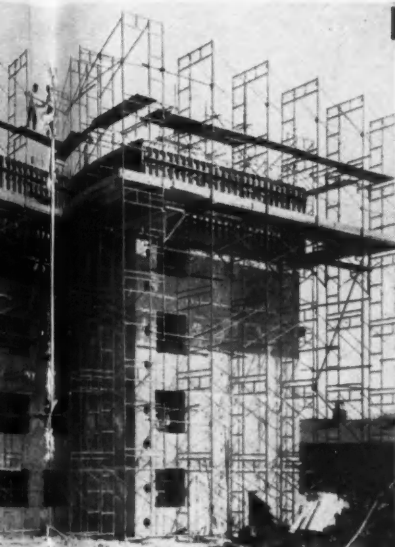
BEDFORD

Sterling Works,
Bedford.
Tel. Bedford 5328 (3 lines)

EDINBURGH

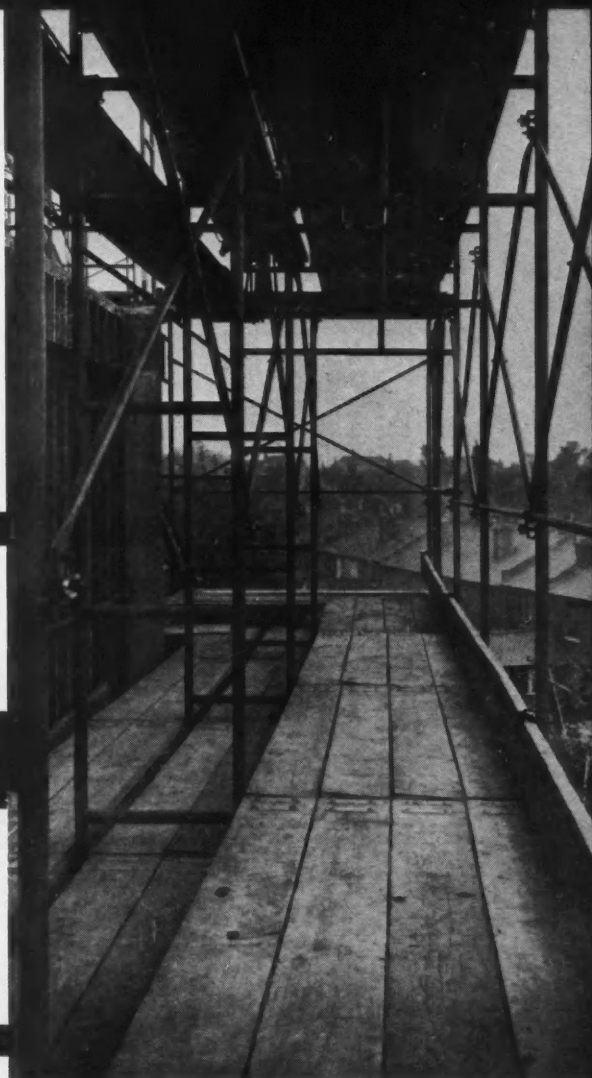
23 Rutland Square,
Edinburgh, 1.
Tel. Edinburgh 225417

AIDS TO BUILDING



FULL PURPOSE 8' 9" UNIT FRAME

The illustrations on the right show the ease of handling storey height frames and the perfect working conditions given to the tradesmen, making increased productivity possible. No other scaffold gives such ideal working conditions together with increased stability, safety, speed of erection and economy of purchase.



of J. W. Esq., Bsc., M.I.C.E., F.R.I.C.S.,
r, Hen. a Borough Council. Main Contractors:

Independent contractors' reports are now proving the advantages claimed for this new Safway access equipment.

- 1) Ease of handling and speed of erection.
- 2) Elimination of losses of tube and fittings.
- 3) The increase of tradesmens' productivity due to perfect working conditions.*
- 4) The general overall resultant economy.

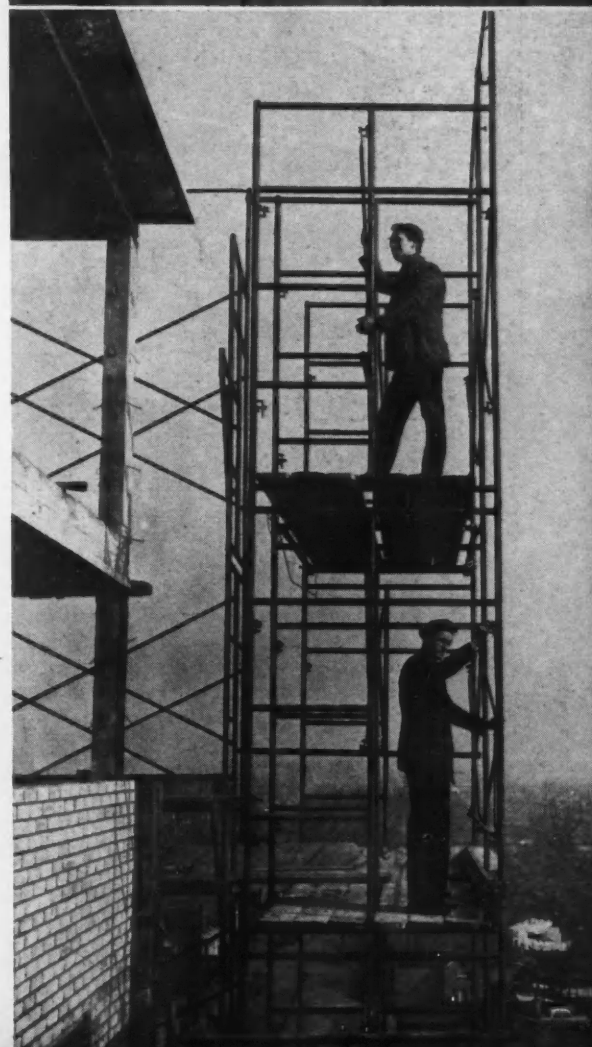
E SAFWAY

for

over
50%
saving
in labour



SAFWAY



GLASGOW
28 Renfield Lane,
Glasgow, C.2.
Tel. City 69112

JARROW
Sterling Factory,
Jarrow, Co. Durham.
Tel. Jarrow 59 7721/22

BRISTOL
175 White Ladies Road,
Bristol, 8.
Tel. Bristol 26112

HERE'S WHY...

the Vickers Vigor keeps



WHAT OPERATORS WANT IN EARTHMOVERS! *An article in the SAE Journal states:*

'Tracks should be smoother running to lessen impact, and have more flexibility in order to achieve more ruggedness in rock and better high-speed operation on rough ground'.

The Vickers Vigor is the best answer to this need ever produced. Even where the going is roughest, the Vickers Vigor provides comfort needed for high-speed operation. Unique springless suspension gives fullest traction with least strain on man and machine.

The Vigor is the world's fastest, most efficient heavy

crawler tractor proved on big projects everywhere. It has a complete range of ancillary earthmoving equipment.

ALTERNATIVE TRANSMISSIONS TO SUIT ALL JOBS
VIGOR WITH DIRECT DRIVE, VIGOR WITH TORQUE CONVERTER. Both powered by "blown" 6-cylinder Cummins or Rolls-Royce diesel engines.

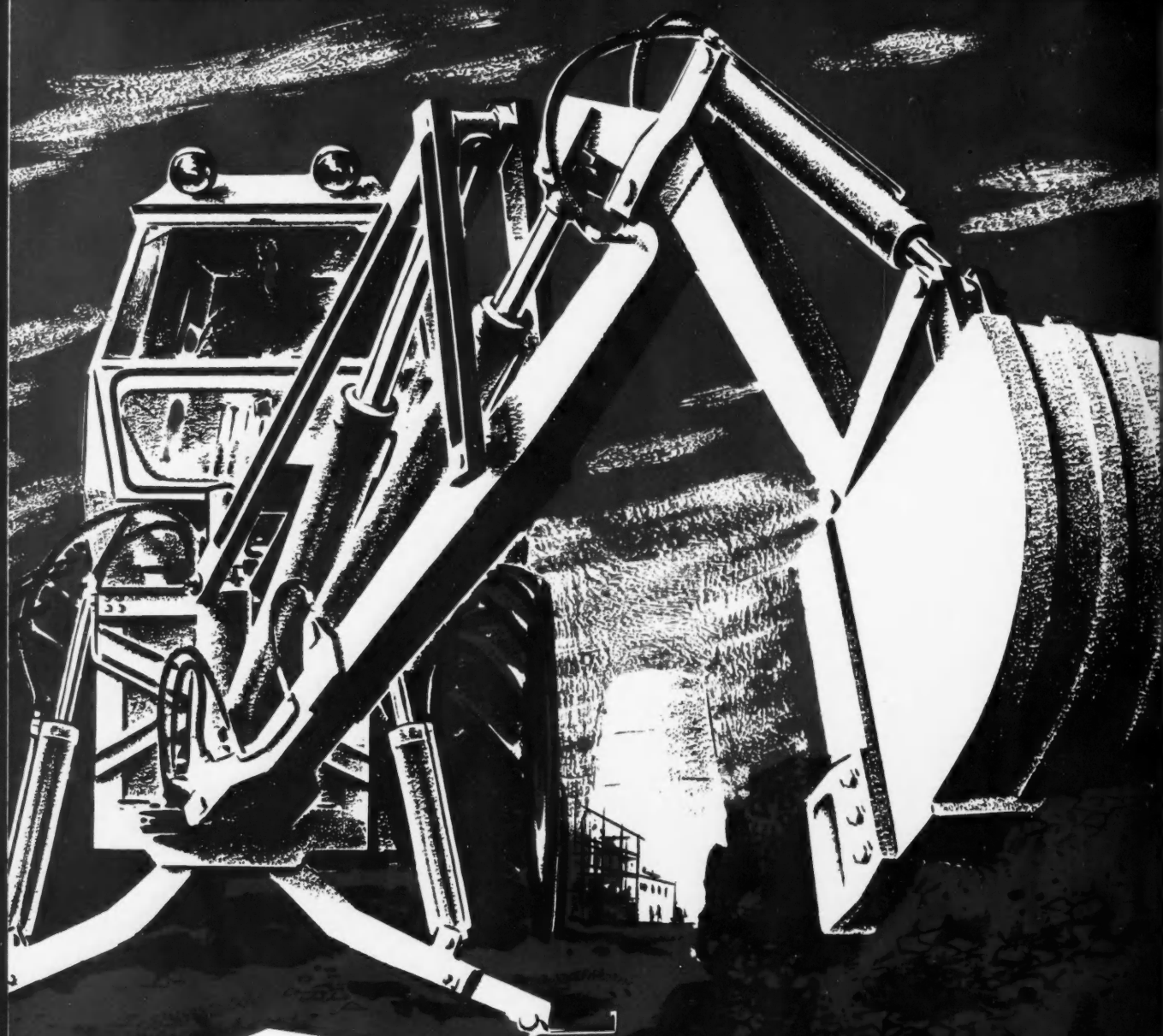
s going fast on roughest terrain



VICKERS VIGOR

VICKERS LEADS IN FASTER EARTHMOVING

VICKERS-ARMSTRONGS (TRACTORS) LIMITED • SCOTSWOOD WORKS • NEWCASTLE UPON TYNE 5



Main Distributors In

LEICESTER, NORTHANTS & RUTLAND

GROCOCK & DAY
(PLANT HIRE) LTD.

26. MAYFIELD ROAD, LEICESTER

Tel: LEICESTER 58148 (3lines)

DINKUM DIGGER



WORK PROGRAMME FOR THE MARBLE ARCH/HYDE PARK SCHEME

Plans to Limit Noise and Traffic Flow Interference

DETAILS were given at a conference in London last week of the phased programme evolved for carrying out the Marble Arch/Hyde Park Corner improvement scheme with as little interference as possible to the traffic flow and at small inconvenience to the surrounding properties, such as the St. George's Hospital at Hyde Park Corner.

The authorities have been faced here with the problem of keeping traffic moving on two of the busiest intersections in the country. There being no alternative routes of sufficient capacity, over 93,000 vehicles will want to use the Hyde Park Corner junction and over 64,000 vehicles will want to use the Marble Arch intersection between the hours of 8 a.m. and 8 p.m. each day.

Added to this, at Hyde Park Corner the proximity of the St. George's Hospital will not allow night or Sunday working.

For the traffic underpasses at the corner, excavations will be necessary close to the escalator shaft of the Underground station. Normally this would entail the sinking of steel sheet piling and the attendant noise of the hammers. But even this hazard has been avoided as the contractors are to use a method of construction developed by a Milan company, Icos-Veder.

By this method a trench is excavated to the required depth by grab cranes, while the trench is kept filled with a liquid incorporating Sodium Bentonite, which gells if left and liquifies again on reactivation. The hydraulic effect of the liquid stops the walls caving in and on completion of the trench the walls and floor are concreted under water.

The construction of the underpasses will to a large extent determine the rate of progress at Hyde Park Corner as they must be constructed in sections in conjunction with the road works to minimise interference with traffic. For the same reason pedestrian subways will be constructed in conjunction with the adjoining road works.

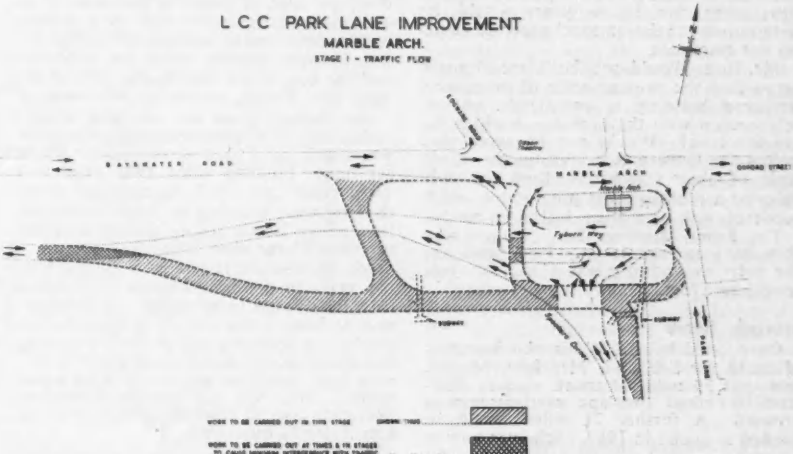
In order to facilitate the work on the main contract, the diversion of sewers and

the complex underground system of pipes and cables belonging to the public utility authorities, was started about September, 1958, and about £450,000 has been spent on this work to date.

There will be five stages of construction for the main contract, which is scheduled for completion in 28 months. These have been prepared by the L.C.C. and the con-

of the new roundabout system behind Apsley House will begin; the major part of the new road parallel with Park Lane will be constructed on and alongside the existing carriage road, with temporary widenings of the existing roadway to provide four lanes of traffic.

Marble Arch.—Roads for the new roundabouts will be constructed mainly on



tractors, after close co-operation with the Metropolitan Police, the Ministry of Transport and the London Transport Executive.

The stages comprise:

Stage I

Hyde Park Corner.—The western end of Piccadilly and the eastern end of Knightsbridge will be widened without affecting existing traffic arrangements; the south-east and south arms of the new roundabout will be constructed mainly off the highway. The South Carriage Road parallel to Knightsbridge will be temporarily widened to provide space for a temporary viaduct.

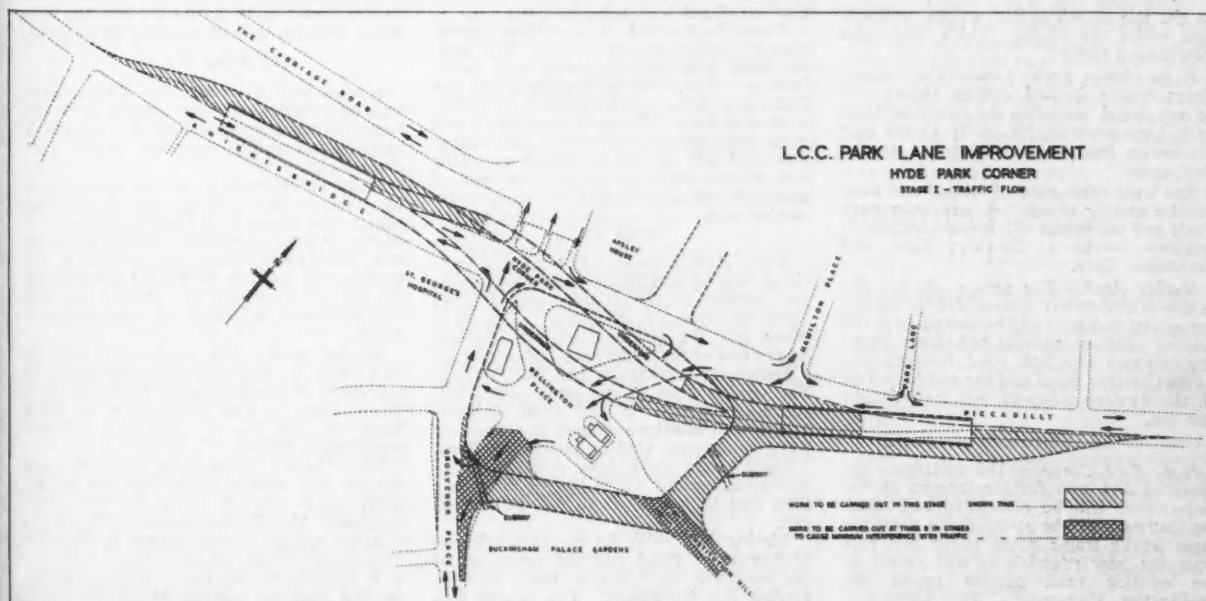
Hyde Park—Park Lane.—Construction

park-land. A link road will be provided to join the south arm of the new roundabout system.

Stage II

Hyde Park Corner.—Temporary surfaces will be provided to link the new roads with the existing roads so that the main roundabout can be brought into temporary operation. To enable the remainder of the work in Knightsbridge to be carried out a temporary viaduct about 900ft. long will be constructed along the line of the South Carriage Road. East-bound traffic from Knightsbridge will join the Carriage Road by a temporary link road with entry

(Concluded on next page)



In Parliament

PRIME MINISTER REJECTS MEMBER'S CRITICISM OF ROAD PROGRAMME

THE Prime Minister, Mr. Harold Macmillan, stated in the Commons last week that he did not accept that the size of the road-building programme was leading to inefficiency and piecemeal development.

Mr. Macmillan, who was replying to Mr. Holt, said that the estimates recently published for expenditure on new construction and major improvements in the United Kingdom showed an increase of some £13m. over the figures last year. The size of the programme for future years would be determined in relation to all other demands on our resources.

Mr. Holt: Would not the Prime Minister agree that the present scale of operations on road building is completely out of relationship with the problem in which we are involved? Would not he agree that unless the Government step up the whole scale of their operations, they are only delaying a road-building programme which inevitably will be a great deal more costly?

The Prime Minister: Yes. That is why they have stepped it up. Five years ago the total expenditure was £5m., this year it will be £76m.

Scottish Roads

Questioned by Mr. Willis, the Secretary of State for Scotland, Mr. John MacLay, said that 35 miles of trunk road in Scotland had dual two-lane carriageways at present. A further 21 miles would be opened to traffic in 1960. Schemes now in progress or to be authorised under the present £40m. programme would provide a further 70 miles by 1965. Information in respect of classified roads was not available without a special approach to local authorities.

Direct Labour Departments

Replying to Mr. Frank Allaun, the Parliamentary Secretary to the Minister of Housing and Local Government, Sir Keith Joseph, turned down a suggestion that the Minister should take powers to place municipal direct works departments in a comparable position to private building firms by allowing them to prepare annual

profit and loss accounts, without having to make a profit on each individual contract.

Mr. Allaun: If to retain their working forces and cover their overheads, private firms may occasionally accept contracts at under cost, why not public works departments? Will the Minister therefore reconsider his recent circular on tendering, which prevents such departments applying the surplus or profit on one contract to another?

Sir K. Joseph: A direct works department does not sink or swim on the basis of its quotation in the same way as a private builder does, and to weaken still further the link between market value the quotation and the cost would not, in the view of my right hon. Friend, encourage efficiency.

Mr. Emery: Does not my hon. Friend realise that 25 per cent. of the local authorities which have used direct labour forces for house building since 1951 have now given them up? Will he consider giving the strongest warning to local authorities that direct labour forces usually cost the ratepayers large sums of money?

Mr. M. Stewart: If comparisons like those just made by the hon. Member for Reading (Mr. Emery) are to be made, and the question at issue is the cost to the ratepayers, surely it is desirable that the two concerns, the direct works department and the private firm, should be able to work on equal terms? Why will not the Parliamentary Secretary give an affirmative answer to my hon. Friend's question?

Sir K. Joseph: I am trying to explain that the quotation of a direct works department and that of a private builder are not on all fours, and that it is for this reason that my right hon. Friend has tried to establish the link between the market value, the quotation and the cost.

Excavation Works (Accidents)

Mr. Manuel was informed by the Parliamentary Secretary to the Ministry of Labour, Mr. Peter Thomas, that comprehensive statistics of accidents resulting from the collapse of excavations were only available from 1954. From that year to 1959, inclusive, 842 such accidents were

reported, of which 80 were fatal. These figures related to all excavation and separate figures were not available for sewers and other services.

Mr. Manuel: Does not the Parliamentary Secretary think this is rather an alarming state of affairs? Is there any safety legislation of a protective nature which will ensure that these cave-ins do not take place? Or does he think there is a need for some steel protection such as a shield, to stop the tragic loss of life and the large number of accidents?

Mr. Thomas: The numbers which I gave to the House are a very small proportion of the 17,000 accidents which take place each year on construction sites, but I agree with the hon. Member that every effort should be made to prevent these accidents. As the hon. Member knows, it is intended that the safety provisions of the building regulations which refer to excavations on building sites will be extended to cover works of engineering construction. Preliminary draft regulations were sent out to interested organisations on March 31, for their comments. Before these regulations can finally be made, there will be full consultation and a statutory draft will have to be issued.

Road Expenditure

In a written answer, the Secretary of State for Scotland told Mr. Gresham Cooke that by the end of this financial year he would have authorised £33.69m. out of the £40m. programme, to which £1.25m. had been added to cover the increased expenditure on Highland roads announced in the White Paper (Cmd. 785). The balance remaining to be authorised in 1961-62 was therefore £7.55m. Thereafter, the programme was being planned on the basis of annual authorisation of about £8m.

CUBITTS TO BUILD £500,000 B.E.A. CENTRE

A £500,000 contract has been awarded to Holland & Hannen and Cubitts (Great Britain), Ltd., for the construction of the new British European Airways Training Centre at Heston, Middx.

Due for completion in September, 1961, the building has been designed by R. S. Harvey, D.A.(Edin.), A.R.I.B.A., chief staff architect, B.E.A. The consulting engineers are Scott and Wilson, Kirkpatrick and Partners, 47 Victoria Street, London, S.W.1, and the quantity surveyors are Wakeman Trower and Partners, 47 Bloomsbury Square, London, W.C.1.

(Concluded from previous page)
on the site of White Horse Gate, and will pass under the viaduct which will carry west-bound traffic.

Hyde Park—Park Lane.—The roundabout system behind Apsley House will be completed, including the new road from Park Lane entering Piccadilly to the east of Apsley House—ready for use at the next stage.

The new road parallel with Park Lane will be mainly completed, and temporary roads and widenings will be constructed to facilitate works at Stanhope Gate and Grosvenor Gate.

Marble Arch.—The new roads for the double roundabouts system will be mainly completed and part will be linked with the existing roads to provide temporary traffic circulation. The link road between the North Carriage Road and the southern arm of the new roundabout will be brought into use.

Stage III

Hyde Park Corner.—The underpass approaches and two further lengths of the underpasses will be completed and existing roadways will be re-laid. To allow for these works traffic going north and east from the new roundabout will revert to the existing road pattern round the Wellington Monument. The temporary

roadway and viaduct along the South Carriage Road will come into use.

Hyde Park—Park Lane.—The Apsley House roundabout and the new road linking Park Lane and Piccadilly will come into use. The roads at Stanhope Gate and Grosvenor Gate will be opened to traffic.

Marble Arch.—The new roundabout will come into operation although the centre link road will not yet be completed. This will relieve traffic at the eastern end of Bayswater Road to enable the work to be carried out.

Stage IV

Hyde Park Corner.—The main roundabout will be completed and brought into use, subject to the gradual regrading of short sections of Piccadilly, Grosvenor Place and the entrance to the Knightsbridge end of the underpass, and works for a permanent entrance to the Tube station. The construction of the underpasses will continue. Traffic to and from Knightsbridge will continue to use the Carriage Road temporary viaduct inside the Park.

Hyde Park—Park Lane.—Minor works and construction of ramps at Stanhope Gate and Grosvenor Gate will be carried out.

Marble Arch.—Works on the north side of Bayswater Road and the regrading of the entrance to Edgware Road will be carried out by stages. The centre link

road of the roundabout will be connected to the system by a temporary road surface while the permanent road is completed.

Stage V

Hyde Park Corner.—The underpasses will be completed. The remaining works here will be the removal of the temporary viaduct and link road to the South Carriage Road.

Hyde Park—Park Lane.—A roundabout for local traffic will be formed at the junction of Lower Park Lane and Hamilton Place. At the crossings at Stanhope Gate and Grosvenor Gate the necessary regradings of sections of Park Lane will be carried out in stages and Park Lane and the new road will each become one-way roads.

Marble Arch.—The works here will be completed by the gradual completion of regrading of the Bayswater Road—Oxford Street junction and the section of Park Lane forming the eastern arm of the roundabout system.

The Marble Arch/Hyde Park Corner scheme has been designed by the L.C.C. staff, under the direction of the chief engineer, Mr. J. Rawlinson. The main contract will be carried out by the Cubitts-Fitzpatrick-Shand consortium.

A description of the work was given in *The Contract Journal*, March 24, 1960.

RECONDITIONING OF THE THIRLMERE AQUEDUCT

From a Correspondent

THE Thirlmere aqueduct, which normally supplies 50,000,000 gallons of water daily to Manchester, is some 96 miles in length, of which 45 miles are pipeline and 14 miles are in tunnel, and 37 miles are of cut and cover construction. The cut and cover sections are approximately 7ft. by 7ft. with vertical sides and a crowned arch. The fall over the length of the aqueduct is 20in. per mile, the rate of flow being some 2ft. per second. During the reconditioning which is now in progress, the capacity has been restricted to 20,000,000 gallons daily. The aqueduct was completed in 1894 and has been in continuous service since that date without major attention.

The reconditioning has been made necessary by the deterioration of the concrete in the cut and cover sections, deterioration being particularly marked in the Northern portion of the line, resulting in loss of water through faulty portions and also in uncontrolled ingress of surface water in some sections.

Work was started in 1958 at one point in the Northern section and at two places in the Southern part. It consists essentially of taking sections, in excess of $\frac{1}{4}$ mile in length, out of service by pumping the flow of the aqueduct through a by-pass length of 30in. diameter pipeline laid on the ground, thus enabling a full section of aqueduct to be completely emptied and the walls exposed internally for complete examination, testing and repair where necessary.

During the early stages of the planning of the scheme, it was apparent that a pumping system, capable of handling 20,000,000 gallons daily, together with the highest possible priming efficiency was essential. The standard pump selected was the Univac type UVS12 a 12in. pump of 3,500 g.p.m. capacity at 32ft. total head in the self-priming range produced by Henry Sykes, Ltd., and which depends for its self-priming characteristic on the use of an ancillary vacuum pump.

Series of Stages

The work is being carried forward in a series of stages using temporary bulkheads which are erected to divide the aqueduct into $\frac{1}{4}$ mile sections. Although this length was originally decided upon, it has been found convenient, for reasons of land ownership and access, to operate in somewhat longer sections, the longest section so far operated being a 5,800ft. length involving a suction lift of 13ft. and a total head from all causes of 38ft., four Sykes UVS12 pumps being operated with one standby unit to handle the 12,000,000 to 15,000,000 gallon flow of the aqueduct at this point.

Operations commence on a section with the cover being stripped from the site of the temporary pumping station and access sites to the aqueduct. Concrete bearers are then set for the pumps and after a section of the aqueduct has been uncovered by an excavator, sections are then cut into the aqueduct by drilling closely spaced holes, breaking these through and lifting out the portions with a crane. For the pump suction, for example, 4ft. diameter circles are cut out of the aqueduct to accommodate the pump suction screens.

The pipework on the suction and delivery branches is of 15in diameter and incorporates both a flexible and an adjustable section. This has the merit not only of enabling rapid emplacement of pumps without the need for fine adjustment of position but also serves to isolate the pipework from the vibration of the pumps. The adjustable section is formed of a 14in. pipe section which is fitted inside the 15in. diameter pipework and is sealed to it by rubber wedge rings and flange which are bolted up to the main pipe flanges, ensuring a tight fit. A typical time for dismantling transfer and setting up six pumps and bringing them into operation is 72 hours.



Sources of supply and Aqueducts to Manchester

On completion, the suction apertures are sealed over with sheeting and concrete to prevent the pollution of the water below.

Downstream of the suction openings a further cut is made in the aqueduct over its width to allow the frame of the bulkhead to be placed in position. The frame is of steel angle construction with rubber seatings and is pin-jointed to allow it to be fixed securely against the two side walls of the aqueduct by an adjustable cross strut, this being in effect an Acrow trench prop. Into this frame is then inserted two steel plates which form the lock, the plates carrying eccentric levers by which they are held firmly against the rubber seatings of the frame, forming a water-tight bulkhead. A similar bulkhead is emplaced at the far end of the section.

When sealing of the section is complete, the contained water is pumped out with a Sykes UVS6 self-priming centrifugal pump. The first stage, after the preliminary inspection, is the removal by scrubbing of a $\frac{1}{2}$ in. thickness of peaty deposit round the walls and the pumping out of a 2in. thick silt layer from the floor. This is followed by a detailed inspection.

Procedure Differs

The inspection and repair procedure differs in the Northern and Southern sections of the aqueduct. In the North, due to the fact that a considerably larger amount of faulty concrete exists, the entire wall of the aqueduct is cut with a modified coal cutting machine, the walls being then refaced. In the Southern section, far less

deterioration has been found and far less rigorous treatment is necessary. The routine in these sections consists of initial cleaning out, inspection, pressure grouting, cutting out and making good where necessary and further grouting if required.

A considerable degree of flexibility in the routine is fairly deep, the affected portion is necessary. Where, for example, decomposition is fairly deep, the effected portion is cut out and a tube inserted in the space created should this penetrate the wall, the function of the tube being to relieve the water pressure outside the wall whilst an initial sealing is made with a quick setting compound such as "Quickscrete." In front of this portion, as soon as a seal has been effected, fondue may be used to strengthen the seal, the remainder of the repair being of concrete which has a 2:1:1 composition. The tube aperture can be used for further grouting if necessary and is plugged on completion.

The pumping out of sludge accumulations during the repair is effected by Consolidated Pneumatic type 77 sludge pumps, the air for these and other power tools operated being derived from Rolls-Royce powered Consolidated Pneumatic type 365 rotary power vane compressors sited at the various access points.

Whilst reconditioning is in progress, the floor is being reinforced by the laying of a 4in. to 6in. thickness of 4:2:1 concrete. The mixer used is a Benford 10/7, surface handling being by a 22RB with long and wide tracks. Transport through the aqueduct is by small battery operated Brush trucks.

Mobile Tubular Framework

Of particular note is the mobile tubular framework which the Corporation has devised for the rapid transport of pipe sections by road. This simple rubber-tyred brace is towed by a Fordson tractor and in conjunction with a 10-ton Smith M.E. crane, enables the pipework to be rapidly transferred from one section to another whilst an intervening section is being worked.

As can be appreciated, the line of the aqueduct entails innumerable crossings, mainly of roads, and considerable work is entailed in carrying the 30in. by-pass line either over or under the services which follow the roads. With operations spread out over distances of up to a mile and with frequent communication essential due to the variety of tasks in hand, both above and below ground, the most convenient communication system has been found to be the use of "Pye" ranger short wave radio sets, one of these being located at the site office, with further units in one of the Land Rovers and another at the pumping station.

The scheme is being carried out by Manchester Corporation using direct labour, due mainly to the unknown nature of the repairs to be expected which makes tendering extremely uncertain. The engineer and manager of the Manchester Corporation Waterworks is Mr. W. K. Lewis, B.Sc., M.I.C.E., M.I.Mun.E., M.I.W.E.

ANOTHER C.M.P.E. BRANCH

At a meeting held recently at the Star Hotel, Kingsclere, it was decided to form a branch to be known as the Mid Southern Counties covering the area of South Bucks., Berks., North Hants, South Oxon and Wilts.

Among those present at the meeting were Mr. R. E. Russell, national executive chairman; Mr. W. Harris, trustee; and Mr. J. Morgan and Mr. R. Simmonds of the London branch.

Further details of the branch may be obtained from the acting honorary secretary, Mr. F. A. Hallah, 1 Manor Grove, Kennington, Oxford.

TECHNICAL PROBLEMS OF LAND RECLAMATION NOW LARGELY SOLVED

"**E**NORMOUS strides have been made in the field of planning legislation and procedure, as well as in the mechanical and scientific techniques of reclamation, and there is no doubt that an entirely different climate of public opinion now exists from that which characterised the immediate post-war years."

This statement was made by Professor S. H. Beaver, M.A., F.G.S., F.R.G.S., in a Paper "Land Reclamation" which he presented at a Mining Surveyors general meeting of the Royal Institution of Chartered Surveyors, held recently at Hanley, Staffs.

"When the full result of the first quinquennial review of local authority plans are available, it will be shown that there are about 160,000 acres of derelict land in England and Wales," the professor continued. "Recent studies show that the amount of land required annually for mineral working is about 5,750 acres. Given present-day techniques and policies, rather more than 60 per cent. of this is likely to be restored to agricultural use or afforested, but this still leaves nearly 2,700 acres a year which will remain derelict. A further 750 acres are required annually for colliery and other mineral spoil-heaps, and 500 acres for urban and industrial refuse disposal; perhaps as much as one third of this may be ultimately usable for other purposes."

Professor Beaver said that the output of the minerals worked by surface excavations had increased about six-fold in the last 40 years; sand and gravel excavation alone had increased from about 2,000,000 tons in 1922 to 61,000,000 tons in 1958.

"These increases have been achieved with an actual reduction in the total number of quarries of all types, so that 'bigger and better holes in the ground, are the order of the day. Shallow, dry pits working a thin seam of mineral from beneath little or no overburden (ironstone in Oxfordshire, and many gravel pits) present little restoration problem. Deep pits worked by opencast methods, extracting a thin seam of minerals from beneath a thick overburden (coal and Northamptonshire ironstone) are required by law to be restored to agriculture or forestry. Deep pits in which a very thick bed of mineral is worked, leaving a large hole in the ground (most limestone, chalk, igneous rock quarries) are virtually impossible to

restore to any economic use. Excavations which penetrate below the underground water-table and so create lagoons ('wet' gravel pits) present special problems which can be solved in several ways; the latest experimental method is that of controlled tipping of local authority refuse during certain months of the year."

Uneconomic

"It is clear that the technical problems of land reclamation are now largely solved: we have both the 'know-how' and the machines. However, in general, restoration to agriculture is uneconomic except in the case of shallow, dry, gravel pits. Restoration costs of between £500 and £2,300 per acre for open-cast coal mines have to be balanced against agricultural productivity, lower than that of normal farmland, valued at only £25 per acre gross or about £7 per acre net."

"Forestry can certainly be economic if no levelling costs have to be borne and provided that large enough areas are treated without grants or subsidies. But afforestation in place of formerly high quality grassland does not meet with general public approval, particularly if much of the plantation is of coniferous species."

"The treatment of colliery spoil-heaps is also in general hopelessly uneconomic, for costs of levelling or regrading may be anything from £6,000 to £12,000 per acre, and the agricultural returns negligible by comparison. In all these cases it is the amenity value of the operation which is of paramount importance."

Building Sites

"Wet gravel pits may profitably be filled for industrial building or for housing. Gravel pits get filled in the course of time through the normal demand for tipping space. In areas where such space is scarce, the owners of the pits can make a charge for tipping, and later make a further profit by selling the restored land for building."

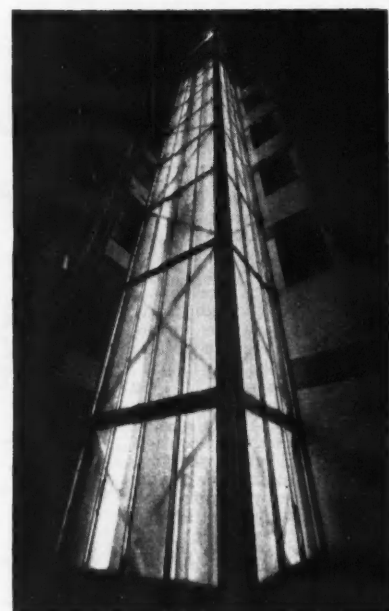
"Whether it is economic or not, in the short run, or in the long run, our descendants will surely approve of our now almost universal policy of clearing up passed dereliction and avoiding the creation of more derelict acres," stated the Professor. "There are some things that cannot be easily measured in terms of money, and the amenity of our landscape is one of these."

REMODELLING OF DUNLOP'S HEAD OFFICES

TO accommodate expansion in staff, Dunlop have carried out extensive remodelling of their head offices at St. James's, London, S.W.1. The main part of this operation was the installation of an additional lift.

One of the main difficulties of installing the lift was to prevent interruption of the normal work going on in the building. This was achieved by siting the lift in the light area in the centre of the building, and forming short "hallways" which link with the main corridors on each of the seven floors of the building.

Care had to be exercised when ex-



A night view of the lift tower

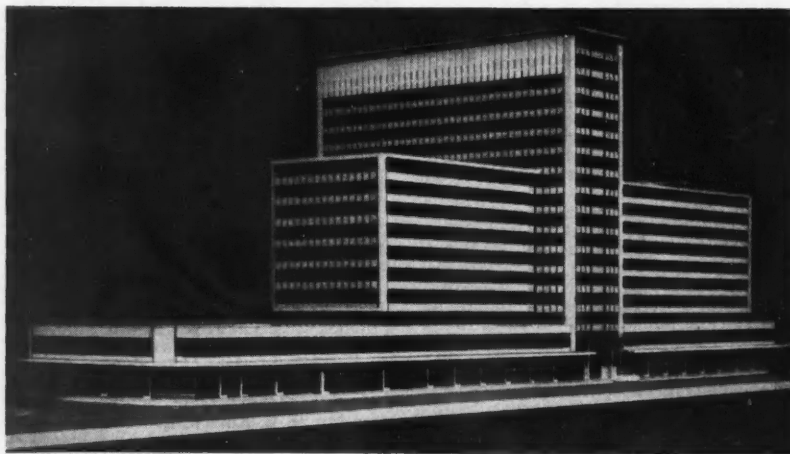
cavating for the pit and shaft foundations to prevent any inducement of instability into the existing adjacent foundation. An added difficulty was the presence of a complicated drainage system.

Steel Framed

The lift tower is steel framed with aluminium casings and the walls are filled with wired glass through which the lift car can be seen as it traverses the tower. The glass walls help to maintain adequate natural lighting to the adjoining offices. In order to satisfy the ruling of the L.C.C. that no weight from the lift was to be transmitted to the existing buildings, the lift tower is self-supporting.

The lift itself is fully automatic and is designed to carry 10 persons at an average car speed of 300ft. per minute. It is controlled by an automatic collective system which can operate with or without an attendant. The car is made from cellulosed sheet steel and there are illuminated position indicators in the car and on each landing. The safety gear is governor-operated and a three station telephone has been installed providing communication between the lift car and the ground floor and motor room.

In charge of the project was Dunlop's chief architect, Mr. Stuart Bentley, and the main contractors were Sir Robert McAlpine and Sons, Ltd. The lift was supplied by the Otis Elevator Co., Ltd.



A model of the new head office which Esso Petroleum Co., Ltd., will start to occupy in the autumn of 1961. Situated on an island site with a frontage of about 500ft. to Victoria Street, London, S.W.1, the building comprises 235,000 sq. ft. of office accommodation in a 16-storey tower and two nine-storey wings. It has been designed by T. P. Bennett and Son, and the general contractors are Taylor Woodrow Construction, Ltd.

British Ropes, Ltd., Doncaster, have completed negotiations with the New Zealand Government to set up a wire rope factory in Auckland to supply the major part of the domestic needs of the country.

TIME AND COST CUT IN THAMES JETTY RENEWAL

Prestressed Precast Planks Used Between Piles

LARGE savings in both time and cost were features of a contract recently carried out for Borax Consolidated, Ltd., involving the reconstruction of a 50-year-old acid barge berth at Belvedere, near Erith, Kent.

The original berth was of timber pile and sheeting construction, and having been repaired many times over the years, had reached the stage where further renovation would have been uneconomical. Apart from the bad overall condition of the berth, in one place the timbers had collapsed completely and the retained filling had spilled out into the River Thames.

Originally, the contractors were asked to submit a scheme of reconstruction involving the use of conventional steel sheet piling with a concrete capping beam anchored back by steel tie-bars to concrete blocks. Due to the existence of an overhead rail track running across the berth, however, it would have been impossible to bring heavy plant in from the landward side, and the alternative would have necessitated the use of a barge for both transporting and driving the piles, with the subsequent interruption to normal barge traffic at an adjacent berth.

With these facts in mind, the contractors prepared a scheme which avoided the use of pile-driving plant, and also eliminated

the danger to old structures from the vibration of pile-driving. The Larssen 3B piles were spaced at 8ft. centres, and were laid in position at the top by a reinforced concrete beam, the top of which lay 12in. below the bed of the Thames

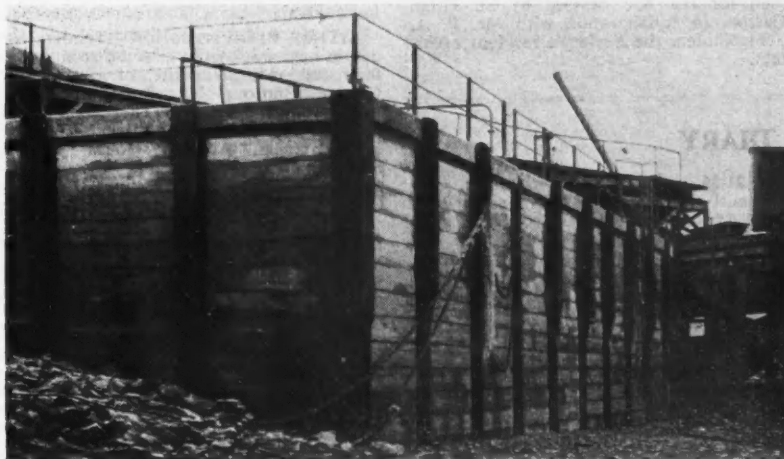
to avoid any danger of it being fouled by a barge. Each pile was restrained at a depth of 6ft. by a steel tie-bar, the bars being held by a reinforced concrete beam which was positioned to pass between the columns of the rail track.



The old timber berth at low tide, showing the area of collapse



Prestressed concrete planks mount between the piles



The completed new berth

To fill the gaps between the piles, prestressed precast concrete planks were fitted behind the clutch of the piles. These planks were light enough to be handled by two men and simple to place in position.

The space between the new berth and the old timber one was filled with mass concrete, with a layer of stone rejects at the bottom to allow for the free flow of water. Timber rubbing pieces were bolted to each pile, and a reinforced concrete capping beam, with handrail, was added to complete the berth.

The work was completed in six weeks, using a labour force of only six men, and the saving in cost over conventional methods is estimated at more than 50 per cent.

Contractors

The contractors for the berth reconstruction were Chafen and Newman Piling, Ltd., 30 Old Queen Street, London, S.W.1, who retained Ingerslev and Partners as their consultants.

50,000TH HOUSE OF SCOTTISH HOUSING ASSOCIATION

An illustrated brochure describing their activities and aims for the future has been produced by the Scottish Special Housing Association, Ltd., to commemorate the completion of their 50,000th house.

Of their future programme, the Association say that this may well lie in central redevelopments and mixed developments in overspill areas where the judicious use of multi-storey blocks and other types of dwellings will be necessary to achieve the densities required by planning authorities.

Recently a research and development group was formed between the Department of Health for Scotland and the Association, the primary function of which will be to formulate advice on design and cost criteria for multi-storey flats for the guidance of local authorities. The group's advice will be based on the experience gained in carrying through a continuing programme of building schemes incorporating multi-storey flats. A site for the first experimental building project has been obtained in Glasgow.

MARTIN COWLEY'S £1½M. MOTORWAY CONTRACT

THE Minister of Transport has authorised Hertfordshire County Council to accept the £1,787,803 tender of Martin Cowley, Ltd., 112 Jermyn Street, London, S.W.1, for the construction of a 7½-mile motorway which will enable traffic to by-pass Stevenage and Hertfordshire villages on the Great North Road, A.1. Work is to start this month.

At the southern end the motorway will leave a point on the Welwyn By-pass near the "Clock" junction where a roundabout will be constructed. The road will sweep northward to the west of Woolmer Green, Knebworth, Broadwater and Stevenage to a point near Graveley, where there will be connections with both A.1 and A.602, the Hitchin Road.

The roundabout here at Corey's Mill will be designed so that it can be converted into a two-level junction when the motorway is extended northward for 4½ miles to a point on the A.1 north of Baldock.

Near the Langley Sidings, some 700 yd. north of North Lodge, Knebworth, there will be a flyover in conjunction with a roundabout to allow a flow of traffic to and from Stevenage New Town without interfering with straight through traffic.

No other connections or accesses will be provided between the terminal points, existing side roads being carried over or under the double carriageways. This will entail the construction of 13 bridges. Three subways are being constructed for pedestrians and two for cyclists and pedestrians.

The road will be for motorway traffic only, cyclists and pedestrians being excluded.

There will be two 24 ft. wide carriageways, and hard shoulders will be provided for emergency stops. Generally the space between carriageways will be 13 ft. wide but, between Knebworth Park and Fishers Green, it will widen to 28 ft. This will permit the retention of existing trees and the planting of new ones.

The scheme has been designed for the Ministry by Hertfordshire County Council, (county surveyor, Lt.-Col. C. H. folliott, B.A., M.I.C.E.).

INTERIM PANEL FOR L.C.C. SALARY NEGOTIATIONS

A proposal for the constitution of an Interim London Panel consisting of 10 representatives each of the L.C.C. and the L.C.C. Staff Association—to take the place of the former joint committee of members and staff—is being considered by both bodies.

The panel would not be linked to the National Joint Council for Local Authorities Administrative, Professional, Technical and Clerical Services on the Association's side, but on the employers' side only. With the exception of general pay claims, the functions of the panel would cover the same range as the former negotiating machinery.

£1M. BELFAST CONTRACT FOR HIGGS AND HILL

A £1.134M. contract for the new Government Offices at Stormont, Belfast, has been awarded by the Northern Ireland Minister of Finance to Higgs and Hill, Ltd., South Lambeth Road, S.W.8.

Works comprise foundation raft and framing in reinforced concrete with walls in reinforced concrete brick and hollow block with Portland stone, granite, faience and other external claddings. Suspended floors in reinforced concrete; flat roofs in reinforced concrete with asphalt covering. The ancillary services and works of plumbing, heating, lighting, drainage, roads, paved areas, etc., are also included.

The building includes four blocks—Block A. seven-storey 257 ft. by 47 ft. with Penthouse, Block B. seven-storey 42 ft. by 61 ft. with Penthouse, Block C. 14-storey 41 ft. by 25 ft. and Block D. 12-storey 226 ft. by 47 ft. with Penthouse. The time for completion is 24 months.

The project will be carried out under the direction of R. H. Gibson, F.R.I.B.A., F.R.I.A.I., P.P.R.S.U.A., in association with R. H. Gibson and E. D. Taylor, F.R.I.B.A., chartered architects, 16 Donegall Square South, Belfast. The quantity surveyors are Ogilby and McCutcheon, F.F.R.I.C.S., 9 Upper Crescent, University Road, Belfast.

RECONSTRUCTION OF TEMPLE MILLS BRIDGE, HACKNEY

The Minister of Transport has made a grant of £146,205 to the London County Council towards the cost (£201,000) of reconstructing Temple Mills Bridge, Hackney.

The new bridge will have two 30 ft. carriageways, and two 12 ft. 6 in. footways. The approaches will also be improved to provide two carriageways for a distance of 150 yd. Temple Mills Road and Homerston Road will also be realigned.

F. R. Bullen and Partners are responsible for the design and construction of the bridge in association with Mr. J. Rawlinson, C.B.E., M.Eng.M.Inst., C.E., M.I.Mun.E., chief engineer to the London County Council.

ANIMAL HEALTH INSTITUTE FOR LONDON ZOO

A grant of £100,000 has been made by the Nuffield Foundation to the Zoological Society of London for the establishment of an Institute of Comparative Medicine as an extension to the present administrative and office block at the Regent's Park Zoo.

Mr. Richard Llewelyn Davies, director of the Nuffield Foundation division for architectural studies, will design the new building in accordance with the overall plan for the Zoo devised by Sir Hugh Casson, in collaboration with Mr. F. A. Stengelhofen, the Society's resident architect.

Late Construction News

£1.6M. LIVERPOOL FACTORY.—Holland & Hannen and Cubitts (North West), Ltd., Bromborough, Ches., are about to begin work on the erection of a £1.6m. cellulosic film factory for British Enka, Ltd., at Aintree, near Liverpool. The consultants for the scheme are: Harry Bannister and Partners, architects, 67 Rodney Street, Liverpool, 1; D. S. Grave, consulting engineer, 158 Thomas Lane, Liverpool, 14; and J. Youdan Briggs and Partners, quantity surveyors, Refuge Assurance House, 2 Lord Street, Liverpool, 2.

£10M. BASILDON PROJECT.—A start is to be made soon on the construction of a 1,000,000 sq. ft. tractor factory at Basildon, Essex, for the Ford Motor Co., Ltd. The cost is estimated at £10m. The company state that no arrangements regarding contractors have yet been made.

SHEFFIELD COLLEGE CONTRACT.—Subject to Ministry approval, the £1,178,586 tender of Tersons, Ltd., 4 Dollis Park, London, N.3, is to be accepted by Sheffield City Council for the erection of phase III of the college of technology.

RAIL DEPOT MODERNISATION.—Wilson Lovatt and Sons, Ltd., Wolverhampton, have been awarded a contract by British Railways for the modernisation of the Queen Street depot, Leicester, at a cost of about £460,000. Work is expected to commence next month.

HOUSES AT ROTHERHAM.—Rotherham B.C. have been recommended to accept the £167,052 tender of Frank Haslam and Co., Ltd., Regent Chambers, Hall Cross, Doncaster, for building 134 houses and 32 garages at Kimberworth Park estate.

BIG PIPELAYING CONTRACTS.—The following tenders have been accepted by Liverpool City Council in connection with the laying of a 60 in. diameter pipeline from Huntington to Norton Water Tower: 6½ miles of pipeline from Huntington to Barrow, etc.—R. G. Horton, Ltd., Brierley Hill, Staffs., £289,639; 6 miles from Barrow to Frodsham—Mactrac (Engineering), Ltd., Manchester, £302,467; 2½ miles from Frodsham to Norton, including river crossings—G. Dew and Co., Ltd., Oldham, £308,887; construction of pumping station buildings at Huntington—F. C. Construction Co., Ltd., Derby, £359,670.

NOTTS. BRIDGEWORKS.—A £213,000 contract has been awarded to Gilbert-Ash, Ltd., London, by Nottinghamshire C.C. for the construction of three bridges on the Sandiacre/Stapleford By-pass. Two will be of prestressed concrete with spans of 25 ft. 9 in. and 61 ft. 7 in. and the third will be a three-span girder bridge over Toton Sidings.

MORLEY SEWAGE WORKS.—The reconstruction of the Dewsbury Road sewage works, Morley, is to be carried out by J. Wimpenny and Co., Ltd., Linthwaite, near Huddersfield. The B.C. are to apply for a loan of £355,500 to cover the cost.

STATION RECONSTRUCTION.—Tenders are due in next week from selected contractors for the reconstruction of Folkestone Central Station, for British Railways (Southern Region). The consulting engineers are Sir William Halcrow and Partners, Alliance House, Caxton Street, London, S.W.1, and the quantity surveyors, Widnes and Trollope, Broadway Court, London, S.W.1.

CLUN WATER SCHEME.—Clun (Salop) R.D.C. have accepted the £133,892 tender of Jenks Builders, Ltd., Crescent Lane, Shrewsbury, for carrying out the Chirbury, Marton and Bent Lont water supply scheme.

LARGE GILLINGHAM FACTORY.—Bowater Eburite Flexible Packaging, Ltd., are inviting tenders for the erection of a large new factory and ancillary works at Gillingham, Kent. Plans are by Farmer and Dark, Romney House, Tufton Street, London, S.W.1, and E. C. Harris and Partners, Lynton House, Tavistock Square, London, W.C.1, are the quantity surveyors.

FOR THE DIARY

May 3-13.

Mechanical Handling Exhibition, Earls Court, London.

May 18-19.

Symposium on "Problems in the Design of High Buildings" at the R.I.B.A., 66 Portland Place, London, S.W.1.

May 20.

Annual General Meeting of the Contractors Mechanical Plant Engineers (Midland Branch) at the Imperial Hotel, Temple Street, Birmingham, at 7.30 p.m.

June 4.

Annual General Meeting of the North Western Educational Association for the Building Industry at Peel Park Technical College, Salford, 5, at 11 a.m.

June 21-24

Annual conference of the Institute of Sewage Purification, Scarborough.

June 30-July 3.

Sand and Gravel Association of Great Britain. Short Course on "The Production and Technology of Sand and Gravel Aggregates," at the Imperial College of Science and Technology, South Kensington.

July 20-24.

Institution of Municipal Engineers. Northern Districts Summer School at the University of Sheffield.

Aug. 30-Sept. 3.

Royal Institution of Chartered Surveyors. Annual Conference at the University College of North Wales, Bangor.

MACHINERY IMPORTERS' CHAIRMAN ATTACKS TARIFF BARRIERS

Call for Early Reconsideration

TARIFF barriers were severely criticised by Mr. R. G. Ledger, chairman of the Federation of Construction Machinery Importers, when he spoke at the Federation's annual luncheon in London last week.

"The job of our members originally was to import construction machinery," he stated. "As I have said in the past, the Government policy of tariff and embargo was extremely successful from a national point of view, as the American manufacturers were forced to set up production in this country. Now that the Government has achieved this objective, I am of the opinion that very earnest reconsideration should be given to the whole of the tariff question."

"Originally, let me remind you, the Import Duties Act was introduced in 1932, to prevent dumping. Like so many things that started off with good intentions, this tariff is of itself becoming evil. By all means let us ensure that our standards of living are not lowered by dumping, but let us make equally sure that our standards of living are raised by the increased proficiency of our industry which should not require protection if it is efficient. If we cannot sell our goods at home without a tariff on our foreign competitors, then how can we expect to sell them in the world's markets where we meet on equal terms with these competitors? I can see both sides of this question as, apart from being importers, my company both manufactures and exports."

New Territories

"The European market we all know is at sixes and sevens but even greater markets are growing in the underdeveloped territories at a rate that will ultimately make our 19th century Industrial Revolution look like a slump. These new territories, many of which are now achieving independence after careful nursing by the mother country, will undoubtedly follow our pattern in their tariff policies in the same way that we hope they will copy our way of life."

"British exporters are already finding that as many of these countries become industrialised, the local manufacturer has only to wave a blueprint and pronounce that he is in production, for a tariff or even an embargo to be imposed against British goods. This is history repeating itself. We are hardly in a position to protest, and unless we are careful the vaunted phrase 'we have never had it so good' will be turned into 'we never wanted it so bad.'"

"To capture these new markets requires two things, money and courage. Unfortunately, it is the old men who have the money and the young men who have the courage. Money, however, can be bought, courage cannot, but fortunately courage is a quality our youth has never lacked. The tariff weapon is a weapon of fear and is an artificial barrier put up by the old men. These barriers can sometimes be used as a temporary expedient but must inevitably be trampled down by the march of time."

"Surely the intelligent thing to do if we wish to see no trade barriers to our exports is to have the courage to remove our own barriers as quickly as possible. When will the moment of truth dawn that we cannot have high tariff walls and at the same time be a great exporting country?"

Road Programme

During the course of his speech, Mr. Ledger congratulated the Government and the civil engineering contractors on the "magnificence of the M.1 and on the road programme which is slowly unfolding; but the very merit of the M.1 highlights the inadequacies of our main roads which, after all, are the conveyor belts of modern industry."

"They had the greatest sympathy with the Government who must find it very difficult to allocate priorities of expenditure. Perhaps a lesson might be drawn from the 18th century when after the loss of the American colonies in 1783, when the country was on the verge of bankruptcy, the reform of the Civil List was taken in hand. Degrees of priority were given, commencing with the Royal Family and at the bottom of the list

came the Chancellor of the Exchequer and the Treasury officials, the idea being that if they were not sufficiently vigilant in looking after the country's finances, they would not get paid at all."

"With the millions paid by the motorist in taxes it should surely be possible to devise a scheme that emulates this 18th-century logic," added Mr. Ledger.

£175m. Needed Annually

Proposing the toast of "The Federation," Mr. Wilfrid Andrews, chairman of the Roads Campaign Council, said that the highway programme was still totally inadequate even though expenditure on new construction and major improvements was now about £100m. a year, compared with £8m. in 1955-56.

The motor manufacturing industry was being encouraged to expand and some 500,000 new vehicles were coming onto the roads each year. An annual expenditure of £175m. was therefore required to provide the necessary highway system.

MERSEYSIDE CIVIL ENGINEERING SAFETY COURSE

The first civil engineering accident prevention course to be held in the Merseyside area took place recently at the Merseyside and North-West Safety Centre, Aintree, Liverpool.

The two-day course was attended by 30 young engineers, site agents, supervisors and foremen, and followed the national syllabus prepared by the Federation of Civil Engineering Contractors. Detailed arrangements were organised by the Federation's North-Western Section under Mr. D. MacPhie, chairman of the Section's safety committee.

Further courses in 1960 have been arranged for May 25 and 26, and October 19 and 20, while in 1961, arrangements have been made for the first course on April 19 and 20.

BLACKPOOL APPROVE £7M. REDEVELOPMENT PLAN

Blackpool Town Council have approved a £7m. plan for the redevelopment of the Golden Mile area. The scheme, which could be completed in 10 years, provides for rebuilding the Golden Mile, elevated footways and roadway, a new central station, and car parking for 2,000 vehicles.

RAIL LINK CONTRACT NEARING COMPLETION

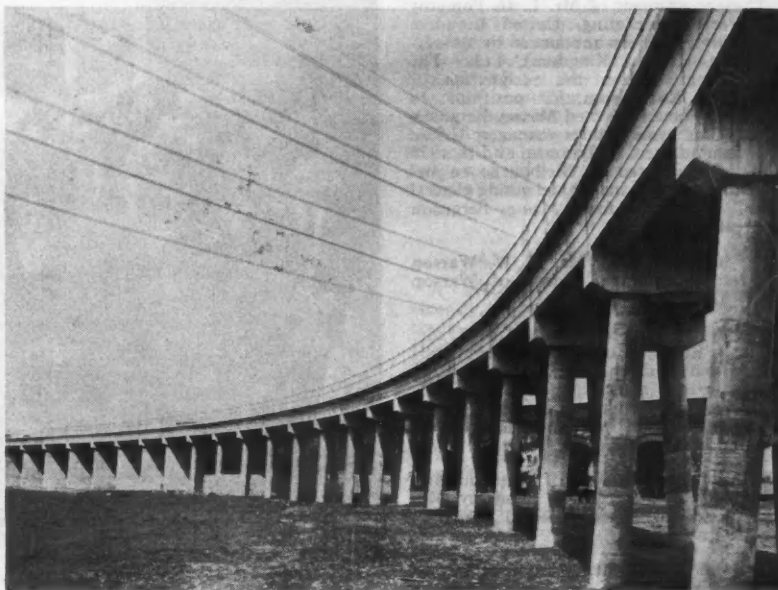
AT Cotgrave in Nottinghamshire, The Cementation Co., Ltd., are now completing a £280,000 contract—part of a scheme to link a new coal mine with the Nottingham-Grantham railway line at a point near Radcliffe-on-Trent.

The contract has involved the construction of a 1,000ft. reinforced concrete semi-circular viaduct, four bridges, and an embankment containing some 300,000 cu. yd. of filling.

The viaduct, which consists of 37 spans, each approximately 30ft., is founded upon in-situ bored piles, and from the pile caps a series of trestles—comprising two circular concrete columns each 2ft. 7in. diameter and reinforced concrete capping beams—carry longitudinal concrete beams, cast in situ and L-shaped in cross section.

The columns have been formed by placing reinforced concrete within precast reinforced concrete pipes. Between the main girders, a transverse deck of composite prestressed and in-situ concrete construction carries the ballasted permanent way.

Some 470 bored piles, each 30ft., have been constructed for the contract, and some 7,000 cu. yd. of concrete poured.



General view of the viaduct, looking north

Men and Movements

THE Scottish Land Development Corporation have announced executive appointments as follows: **Mr. T. C. Maconochie** has been appointed sales manager for Scotland, based at the company's headquarters in Glasgow. **Mr. Maconochie**, who has served as general service manager with Caledonian Tractor and Equipment Co., Ltd., will now be principally concerned with sales in Scotland of Michigan tractor shovels and dozers, and A.E.C. dumptrucks. Operating from their London office, **Mr. M. J. Draper** has been appointed sales promotion manager, and **Mr. T. Walker**, sales manager for the London area. **Mr. Draper**, whilst with Black-



T. C. MACONOCHE



M. J. DRAPER



T. WALKER

wood Hodge, Ltd., was actively concerned with the development of their overseas sales. **Mr. Walker** moves from the Newcastle area of Scottish Land Development Corporation.

The Federated Employers' Insurance Association, Ltd., have announced that at a recent Board meeting **Mr. Guy G. Lawrence** and **Mr. F. A. E. Evans** were re-elected chairman and deputy chairman respectively for the ensuing year.

The appointment of **Mr. L. H. Pomeroy** as director marketing, United Kingdom Operations, has been announced by Massey-Ferguson (United Kingdom), Ltd. The appointment follows the resignation of **Mr. T. V. Knox** from that position. In 1957 **Mr. Pomeroy** joined Massey-Ferguson as assistant general sales manager, U.S.A. with headquarters in Toronto, and in 1958 he was transferred to Melbourne to become marketing manager and acting general sales manager for Massey-Ferguson (Australia), Ltd.

For health reasons, **Mr. N. W. Warsop** has retired from the board of Warsop Power Tools, Ltd.

The Minister of State, Board of Trade, **Mr. F. J. Erroll**, is making an official visit to Iraq and Iran, and he will be spending a week in each country. **Mr. Erroll** is investigating the opportunities available for expanding trade between the United Kingdom and Iraq and Iran.

At a general assembly of Academicians and Associates of the Royal Academy, **Mr. Basil Spence** was elected a Royal Academician.

Sir John Evetts, having relinquished his directorship of Rotol, Ltd., has now been appointed to the Board of Dowty Fuel Systems, Ltd.

Mr. Tony Lawman has been appointed head of public relations to The Cementation group of companies. He succeeds **Mr. Bryan Samain**, who is leaving the group to take up another appointment. **Mr. Lawman** is joining The Cementation group in May from The British Oxygen Co., Ltd., where he has held the appointment of chief press officer during the past year.

Mr. Edward Playne, D.S.C., F.R.I.B.A., A.A.Dipl., a partner in the firm of architects, Playne and Lacey, has been elected president of The Architectural Association for the session commencing June 1, 1960.

Millars' Machinery Co., Ltd., have announced the appointment of **Mr. Roy Bennett** as works manager.

Mr. T. L. Watson, of James F. Low and Co., Ltd., has left the company to take up a post in New Zealand with Munro Foundries, Ltd., as director and general manager.



T. L. WATSON

After 50 years with the Shap Granite Co., Ltd., **Mr. J. W. Millray** has retired from active duties, though he will still continue to be a member of the board and act in an advisory capacity. **Mr. Millray** was formerly secretary of the company, and from 1953 was general manager and a director. He was succeeded as secretary earlier this year by **Mr. E. G. Langhorne** and **Mr. W. H. Brooks** succeeds him as general manager.

Mr. M. H. Beattie, E.R.D., M.I.E.E., formerly London sales manager of Scottish Cables, Ltd., has been appointed assistant sales manager (power cables) by British Insulated Callender's Cables, Ltd.

Mr. M. van Westerborg has been re-elected chairman of the Joinery and Woodwork Employers' Federation.

The Leverton Group of Companies, have announced the appointment of **Mr. Laurie F. Everard**, as managing director. Other recent appointments include the promotion of **Mr. F. Parnham** to the position of general service manager for the group. His previous duties as service manager with Leverton of Leeds, Ltd., will be carried out by **Mr. H. Bramham**. **Mr. G. Mousley**, late of West Riding C.C. highways and bridges department, has now been appointed civil engineering consultant to the group.

George Kent, Ltd. have announced the appointment to the board of **Mr. John F. Willsher**, general works manager. **Mr. Willsher** joined the company in 1947. Four years later he was appointed production controller and, the following year, production manager. He held the post of instrument division manager from 1955 until early 1959, when he succeeded the late **Mr. J. Horridge** as general works manager.



J. F. WILLISHER

Mr. P. O'Hare has been appointed chief surveyor to Martin Cowley, Ltd., London and Clay Cross. Prior to taking up his new appointment, **Mr. O'Hare** was with the Wimpey organisation for about 21 years.

Mr. Donald Ross has been appointed regional manager for the south of England by Semtex, Ltd., succeeding **Mr. Howard Cadogan**, who has left to take up another post. The marine division has been re-organised and **Mr. F. B. Houlst**, at present area manager, Newcastle, will take over responsibility for new construction work.

Mr. A. G. Sheppard Fidler, vice-president of the Royal Institute of British Architects, has been elected chairman of the Architects' Registration Council of the United Kingdom in succession to **Mr. Howard V. Lobb**, C.B.E.

Stella Lamp Co., Ltd. have announced the appointment of **Mr. J. M. Anderson** as their sales agent for Scotland and Northern Ireland. **Mr. Anderson** was until recently regional manager in Scotland and Northern Ireland for the A.E.I. Lamp and Lighting Co., Ltd.



A two-day meeting of distributors was held recently by Tunny Cranes, Ltd., at the Blackburn works of Clayton Goodfellow and Co., Ltd., who manufacture the crane. Attending the meeting, which was under the chairmanship of the company's managing director, **Mr. T. J. Sheldon**, were managing directors and senior executives of Tunny distributors

MULTIFORM, a new type of building

New Building Designed for Arcon Group

MULTIFORM, a new type of building produced by the Arcon Group, enables for the first time structures of up to four storeys to be erected by methods incorporating the Arcon techniques in prefabrication.

The first Multiform is now in use as an office block, with ground and first floors, at Scunthorpe, Lines., for the United Steel Structural Co., Ltd., who made the steel frame for the structure.

Bay sizes for the Multiform range from

20ft. by 8ft. to 24ft. by 12ft. the planning grid being based on a 4ft. module. The standard ceiling height is 10ft.

The design of the building permits floors to be of either reinforced or prestressed concrete, precast or cast on site. For the roof, aluminium decking is recommended, but a concrete roof should be provided when it is necessary to allow for additional storeys at later dates.

The architects, A. M. Gear and Associates, have designed two special types of walling systems. One is a curtain wall

made up of an aluminium alloy grid, and the other consists of large precast concrete panels with an exposed aggregate finish. Most types of standard internal partitioning can also be used either of the permanent or movable variety.

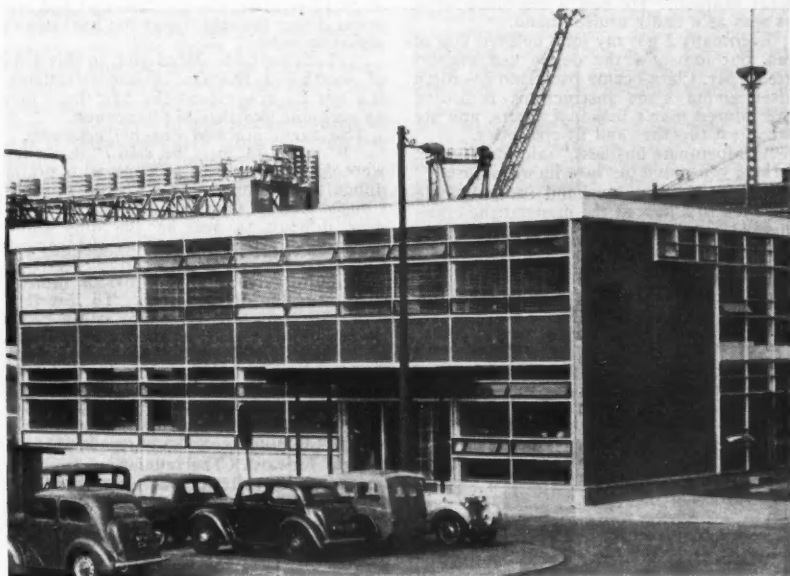
For the first building, the time taken from digging the foundations (which had to penetrate 10ft.) to occupation, was 5½ months.

Scunthorpe Offices

The Scunthorpe offices, of 6,280 super. ft., house the main reception area for the United Steel Structural Company's Scunthorpe establishment and other offices, including the main executive suite and conference rooms, and is connected at first floor level by a bridge to the existing offices below.

As this building was designed for future vertical expansion, the roof deck is of reinforced concrete, and the columns are already fitted with splice plates. This will enable additions to be made without disturbing the offices below.

The United Steel Companies are one of the founder members of the Arcon Group. Other members, each supplying the components in which they specialise, are the Crittall Manufacturing Co., Ltd.; Imperial Chemical Industries, Ltd.; and Stewarts and Lloyds, Ltd., with Taylor Woodrow (Arcon), Ltd., the marketing member for the United Kingdom, and Taylor Woodrow (Building Exports), Ltd., for overseas.



The completed building at Scunthorpe

OPENING OF HEATING AND VENTILATING RESEARCH LABORATORY

A NEW laboratory and office block designed for the Heating and Ventilating Research Association by Mr. E. A. Ferriby, chief architect of Bracknell Development Corporation, was officially opened at Bracknell recently by Lord Hailsham.

An unusual feature of the building is

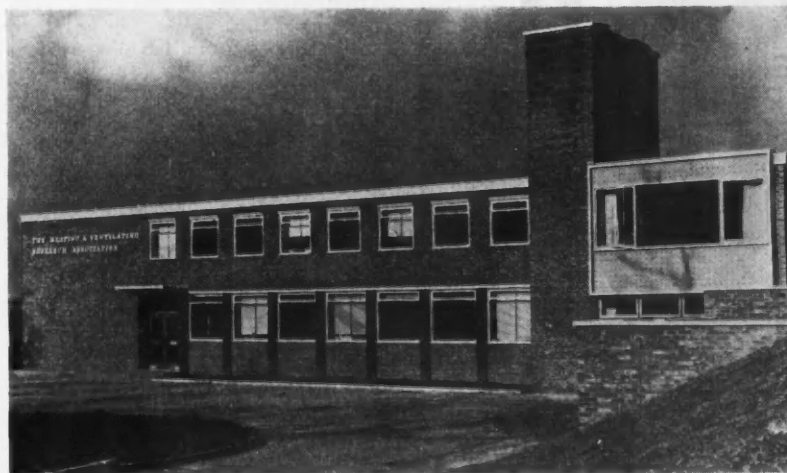
the boiler house, which occupies a prominent position at the front. An oil-fired boiler feeds a hot-water heating system comprising under-floor pipes in the laboratory area and convectors in the offices. The heating system has been supplied and installed almost entirely through the donations of members of the industry and has provided the Association

with a fully controlled plant which, in addition to ensuring excellent working conditions, will enable full-scale experimental work to be carried out on the premises.

The cost of building and equipping the centre was about £42,000, of which £18,000 has been provided by the D.S.I.R. in the form of a special capital grant, the remainder being found by the industry through special cash contributions and donations of materials.

J. M. Jones and Sons, Ltd., Maidenhead, were the building contractors, and G. H. Buckle and Partners, London, acted as honorary consulting engineers.

The three major projects which the laboratory is now undertaking are investigations into intermittent heating, chimney design and the reduction of noise in heating and ventilating systems.



Exterior of the laboratory building

£6M. GENERATING PLANT CONTRACT

Clarke, Chapman and Co., Ltd., Gateshead, have been awarded a £6m. contract by the Central Electricity Generating Board for the manufacture and erection of steam generating plant to be installed at Blyth B Generating Station, Northumberland.

The installation will consist of two steam generating units, each capable of generating 2,350,000lb. of steam per hour at a pressure of 2,400lb. per sq. in. and a temperature of 1,055 degrees F.

AN AWKWARD TOW

A 200-ton crane left Southampton recently to be towed nearly 4,000 miles across the Atlantic where it will help in erecting a chain of oilwells being sunk at sea between Trinidad and Venezuela. It is believed that this is the first time so large a crane with a lifting power of 120 tons and 130ft. jib has been transported by this method.

The convoy of three pontoons were specially constructed for George Wimpey and Co., Ltd., who have a contract with Texaco Trinidad Inc., for erecting the oil wells. The leading pontoon from which the crane will operate is 50yd. long and nearly 20yd. wide, while the other two, one of which will carry a smaller crane with an 80ft. jib and the other a Thames barge, are about 30yd. long.

Talking of Safety

by

"DRAGEE"

I CANNOT resist a nice hot cup of tea, especially on a dark chilly afternoon like this one, with the wind buffeting in from the North Sea, and after a miserable drive across unfamiliar territory where nobody had the vaguest idea of the location of the site. When I eventually climbed out of the car I heard the blast of a whistle and a shout of "tea up!" from the huddle of green-and-grey mess huts beyond the sand tip. It was the most welcome sound I could imagine, and I turned gratefully towards the welcoming lights of the agent's office.

The next instant I heard a cry of a very different kind; one that sent me hurrying towards a spot where a small squad of erectors were working with a mobile crane. It was a cry of pain, only faintly heard above the booming wind.

Immediately I reached the spot I recog-

nised the injured man: an erector who had already made something of a name for himself as a calamity Joe, and here he was, sitting on the front fender of the crane, clutching his wrist and moaning in pain. The others stood around in worried uncertainty. With a muller borrowed from one of the men I improvised a sling and carefully supported the man's wrist and forearm. I then brought my car and took him to the first aid station and then to the local hospital. He had a fractured wrist as well as a badly bruised hand.

Eventually I got my long delayed cup of tea, but somehow the desire had evaporated. Mr. Clarke came back into his room after giving some instructions regarding the injured man's personal affairs, and we sat down together and lit cigarettes.

"Unfortunate business," said Mr. Clarke. "Have you found out how he was injured?"

"Yes. He had his hand in the tackle attached to a joist at the moment the crane driver started to lift. His wrist was trapped,

but the driver heard him call out and managed to stop the machine before any further damage was done."

"But what was the driver playing at? Why didn't he wait for a signal?"

"He did. He got a signal, but it was the wrong one!"

"The wrong one?"

I pointed to the window. "You see how dark it is, although it's only mid-afternoon? Just before I arrived, the rain started lashing down and the boys were trying to finish off the unloading of a truck of steel—that's a bonus job, as you know. With this kind of weather it isn't very easy for the driver to see the signals properly and the ganger told his banksman to use a whistle. It was at that point that I arrived—and so did the tea break."

Mr. Clarke groaned. "I get it. Somebody blew a whistle for 'tea-up' and the crane driver thought it was the banksman's signal to hoist?"

"That's correct. Mind you, in this kind of weather a mistake is understandable. It's not by any means the first time that an accident like that has happened."

The agent stubbed out his cigarette.

"It seems to me," he said, "that they were doing their best to cope with pretty difficult conditions. The whistle was obviously better than hand signals, which were difficult to see, so the only thing wrong about the system was the second whistle."

"I quite agree, and the obvious remedy is to stop one or the other. To interfere with the crane signals might cause more broken bones, whilst the suppression of the tea whistle may only break a few hearts. Buy the boys a Chinese gong instead."

"What—and have 'em rolling up for chop suey? No flipping fear. Seriously, though, what is the law about signals?"

"On building work it's quite simple and straight forward. The regulations say that a signal for moving or stopping lifting appliances must be distinctive—that's where the tea whistle doesn't help matters—and the person it's intended for must be able to see or hear it easily. Now it might be argued that on a dark wet afternoon with half a gale blowing no signals could possibly be seen or heard easily, and the only answer to that one, I'm afraid, is: stop that particular job immediately. If it can't be done safely it should wait until conditions improve. The other requirements are that signalling devices must be properly cared for and signal wires must be protected against accidental interference. Where a power-operated appliance is in use, signals can only be given by a competent person who is not less than eighteen years of age."

Mr. Clarke got up. "It's stopped raining. We'll go and get this signalling business sorted out a bit."

As we went out I mentioned a poster I had seen recently depicting a code of hand signals for site work. It had been designed by a London firm of engineering contractors and it was based on the traditional signals used in the building industry.

"About time we had something like that," said Mr. Clarke.

"We have—the firm has just given us permission to reproduce their design," I answered.

"Dragee," who is a practising safety engineer, would welcome subjects for discussion in this column. All names of persons mentioned in these discussions are entirely fictitious. Questions of law are expressed as the author's personal opinions and are not claimed to be authoritative.—EDITOR.

CRANE SIGNALS



OVERSPILL DEVELOPMENT PARTNERSHIP

Henry Boot and Sons, Ltd., Sheffield, have formed a "development partnership" with Winsford Urban District Council under which they will build houses and factories in the area for Manchester overspill population and industry.

It is reported that the firm expect to set up a subsidiary company in Winsford this summer.

THE PROBLEM OF CORROSION IN CAST-IRON

From a Correspondent

RECENT studies by "Shell" Research, Ltd., and the Fulmer Research Institute have thrown important new light on the problem of corrosion in cast-iron. They were described in a Paper "The Influence of the Silicon in Cast-Iron on Corrosive Wear," which is summarised in the March issue of the Journal of the Institution of Mechanical Engineers.

This Paper shows that the corrosion of cast-iron cylinder liners and piston rings in diesel engines, caused by acids in combustion gases, occurs at a maximum rate when the silicon content is about two per cent. Reduction of the silicon content to one per cent. produces a marked improvement in corrosion resistance.

Similar results were obtained from experiments with boiler gases. While the influence of silicon is not yet fully understood, and further studies will be necessary, the indications already obtained are clear enough to be of great importance to all who are concerned with the many problems that arise when cast-iron is exposed to corrosion by acids.

In certain types of machinery, cast-iron parts are exposed to both abrasive and corrosive wear. Abrasive wear is the simple erosion of surfaces caused by their rubbing together; with corrosive wear metal is lost through direct chemical attack on working surfaces.

A cast-iron containing between one and three per cent. silicon is considered the most satisfactory for resisting abrasive wear. A much higher silicon content on the other hand, is known to provide good resistance to corrosion; in fact an iron containing 14 per cent. silicon is the standard material for use with sulphuric acid. It had therefore been assumed that for cast-iron with a silicon content in the one to three per cent. range, the higher silicon content would give the better

resistance not only to abrasion, but also to corrosion.

Excessive Wear

That this might not be so was suspected when cylinder liners, which had suffered excessive wear in marine diesel engines, were examined at the Thornton Research Centre of "Shell" Research, Ltd. Corrosion is a major cause of wear in diesel engines, through the condensation of combustion products containing acids.

Laboratory corrosion tests at Thornton suggested that silicon might have an adverse effect on the corrosion resistance of cast-iron. Results indicated that the increase in corrosion when the silicon content was raised from 0.8 per cent. to 1.8 per cent. was nearly tenfold.

These first tests were limited in their scope. The highest silicon content used was about 1.8 per cent. and the samples differed not only in silicon content but in other respects, such as constituents and microstructure. The results were felt to justify taking the matter further, by carrying out further tests under more carefully defined experimental conditions.

The Fulmer Research Institute was therefore asked to cast and prepare suitable specimens differing as far as possible only in silicon content, and to test them in their laboratory. Ten cast-irons of similar structure but ranging in silicon content from 0.59 per cent. to 2.96 per cent., were produced and tested. These tests at Fulmer fully confirmed the earlier results at Thornton, and indicated that resistance to corrosion was lowest where the silicon content was just above two per cent.

Further tests were then carried out at Thornton to examine the effect of the silicon content under operating conditions. Piston rings were machined from castings made at Fulmer containing one per cent. and two per cent. silicon respectively, and tested in a diesel engine. These results also confirmed that the cast-iron with the

lower silicon content had substantially greater resistance to corrosive wear than that with the higher content. This was found to be so, although naturally to a lesser degree, even when a lubricating oil with additives designed to combat corrosion was used.

Other Corrosion Problems

It was realised that the results obtained at Fulmer were significant not only for problems connected with diesel engines. The corrosion of cast-iron can be a problem wherever this metal is used; it may be exposed to acids in industrial plant, for example, or merely in the atmosphere of a large city.

Specimens of these cast-irons were therefore tested in boiler combustion gases at Thornton. In comparison with the results of the engine tests the effect of silicon in these boiler tests was significant enough to emphasise the importance of a low silicon content. Here, the greatest corrosion occurred when the silicon content was about 1½ per cent., rather than just over two per cent. as in the previous tests.

Further Studies

Further work will be necessary to reach a fuller understanding of the influence of silicon in the corrosion of cast-iron. Most of the work reported, for example, was done with cast-iron chosen for its suitability in engines and machinery, and there is no direct evidence yet that the results will hold for other types.

The conclusion already drawn, however, should be of great importance to all concerned with the use of cast-iron where it is exposed to corrosion by acids. It has now been clearly shown that the higher silicon contents often chosen to facilitate the production of sound castings for certain machinery can result in the worst resistance to corrosion. For the best resistance the silicon content must be kept low; certainly not higher than one per cent., and if possible lower still.

CIVILS ENTERTAIN DELFT STUDENTS

Professors J. L. A. Cuperus and W. J. P. Gerbers and 28 post-graduate students from Delft University, Holland, who have been attending a study course in London, were guests of the Institution of Civil Engineers, on April 21.

Leaving Westminster Pier at 8 a.m., by chartered launch they sailed to the Port of London. There, among the items of interest of a civil engineering nature shown and described to the party, was No. 4 shed, Royal Victoria Dock. This is the longest clear span shed in England—with a clear span of 200ft.

On the return to Westminster they visited the Shell site. Problems which faced the engineers at the design stage for the skyscraper were outlined to the party on the launch, by Mr. G. M. J. Williams, who was the first resident engineer at the site. After visiting the Shell site, the party went to the House of Commons, Mr. Joseph Godber, M.P., taking them round the House on a tour of inspection.

The party ended their day with a visit to the Institution of Civil Engineers.

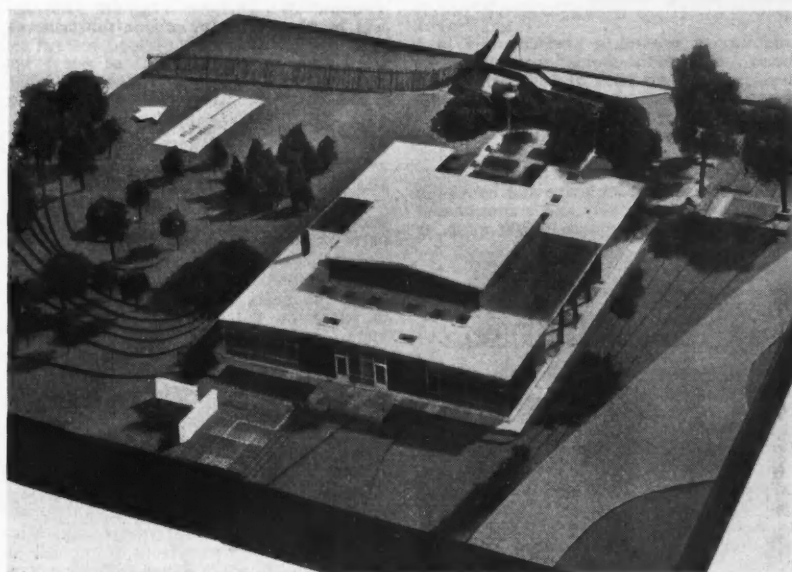
Obituary

It is with regret that *The Contract Journal* records the death of the following:

Mr. Wilfred Bennington, sales manager of Clugston Cawood, Ltd., Scunthorpe. Widely known in the roadstone industry, he joined the company in 1928.

Mr. Frederick C. Flatman, aged 75, for many years surveyor to Saxmundham U.D.C.

Mr. Richard Patrick Creagh, aged 70, a director of Simms Motor and Electronics Corporation, Ltd.



The British exhibit at this year's Milan Triennale exhibition will be a typical three-class primary school. Designed by Mr. W. D. Lacey, county architect to the Nottinghamshire County Council, the school will be built in the C.L.A.S.P. prefabricated system of construction, which can be rapidly erected by a small labour force. The majority of the component parts have been donated by the manufacturers, and most of the furniture and equipment will be lent free of charge by manufacturers and suppliers. After the exhibition the school will be presented to the Milan civil authority. Picture is of a model of the school as it will appear in the exhibition, showing general layout

Trade Section

FIELD TRIALS OF NEW TRACKED TOWER DRILL RIG

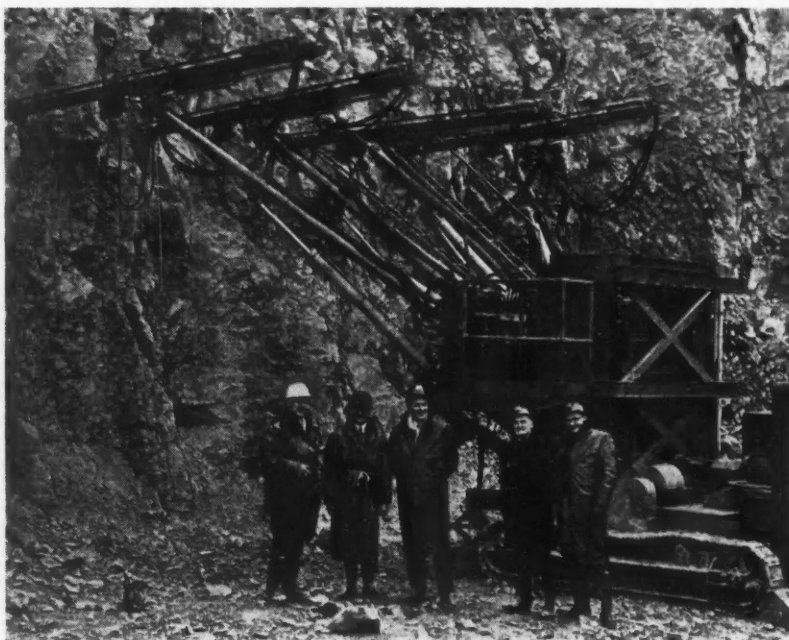
ENGINEERS of the U.S.S.R. Trade Delegation in Great Britain recently witnessed field trials at a Derbyshire quarry of a new tracked tower drill rig, the first of 15 to be supplied to Russia by the Holman Group subsidiary, Climax Rock Drill and Engineering, Ltd., in conjunction with F. Taylor and Sons (Manchester), Ltd. The manufacturers claim that this mobile machine is revolutionary in that

tungsten carbide tipped Holbits will be used and drilling speeds of 16in. per minute are expected.

Operation

The booms and collapsible tower are hydraulically operated and are remote controlled from panels on the platform above the tower.

The tower is mounted on electrically driven tracks which can negotiate rough



With the drill rig in the background, the picture shows (from left to right) Mr. E. W. Hurd, of F. Taylor and Sons (Manchester), Ltd.; Mr. J. O. H. Muhlhaus, of the Holman Group; Mr. D. M. Barskov (Russian technical engineer); Mr. W. B. Rainbird, of the Holman Group; and Mr. V. Gorbatshevich (Russian technical engineer)

four drifters (Holman medium-weight S.L.280 drills mounted on power feed cradles) can be operated simultaneously by two operators without fatigue, and are capable of drilling a rock face from ground level up to 32ft. high and with a horizontal span of 24ft.

Four holes can be drilled simultaneously to a depth of 13ft. and Russian requirements will vary from horizontal holes, slightly dipping holes, to holes angled up to 30 degrees. Two-and-a-quarter inch

and uneven ground, a gradient of 1 in 7 being successfully tackled at the recent tests. Crowding rams of 30in. stroke are provided so that the feed cradle can be pushed up to the rock face and for movement in confined spaces underground the tower can be collapsed to a height of 11ft.

Electric motors of 40-h.p. and 7½-h.p. are provided for track drive and hydraulic pump drive respectively and a compressed air supply of approximately 700 c.f.m. is required.

BARBER-GREENE MERGER PROPOSAL

From America it is reported that the directors of Barber-Greene Company, Aurora, and Smith Engineering Works, Milwaukee, have approved a proposed merger of the two companies, based on an exchange of common stock—six shares of Barber-Greene for each share of Smith Engineering Works.

The merged company will operate under the name of Barber-Greene, with its present officers, and Mr. Gerald L. Smith and Mr. Donald D. Barnes as vice-presidents and members of the board. Smith Engineering Works will operate, under its present management, as a division of Barber-Greene. Mr. Smith will become president and Mr. Barnes will become executive vice-president.

NEW CEDARAPIDS BREAKER

A newly engineered Cedarapids Model 3645 portable double impeller impact breaker with Simplicity Grizzly Feeder has been announced by Iowa Manufacturing Company of Cedar Rapids, Iowa, U.S.A.

The manufacturers say that the unit assures a positive uniform flow, allowing only material requiring primary reduction to pass into the breaker chamber. In addition, the grizzly feeder is designed to prevent rock from jamming and a vibrating unit keeps the rock in constant forward motion. Impact bars absorb loading shock and easily replaceable liners reduce wear to the feeder body. Coil spring mounting confines vibration to the feeder.

Further details may be obtained from Blackwood Hodge, 25 Berkeley Square, London, W.1.

CODE OF PRACTICE

Reinforced and prestressed concrete structures for storage of water and other aqueous liquids

This Code (CP.2007:1960) is a complete revision of the one originally published by the Institution of Civil Engineers in 1938 and extended by the issue of two supplements in 1949 and 1950. The supplement on the use of prestressed concrete has now been incorporated in the body of the Code, while that dealing with bituminous jointing materials forms the basis of an Appendix on movement joints.

The Code's recommendations refer mainly to reservoirs and tanks for the storage of water, but are generally applicable to the storage at normal temperatures of aqueous liquids and solutions which have no detrimental action on the concrete.

The new Code is closely related to the existing Codes CP.114 and CP.115, dealing with the structural use in building of reinforced concrete and of prestressed concrete respectively, and the requirements of these publications are assumed to apply except where superseded by the requirements of the new Code.

CP.2007 pays particular attention to those features of design and construction specially important in water-retaining structures—for example, the avoidance of cracking, corrosion or leakage.

Although the use of nominal concrete mixes is still permitted for ordinary reinforced concrete work, provision is now made for the design of special mixes according to the strength required and based on two alternative standards of quality control. Permissible stresses are given for the two main design criteria: the avoidance of cracking and adequate strength.

Special attention has been given to the provision and preparation of construction joints and of the various types of movement joint, i.e., contraction, expansion and sliding joints. The Code includes 19 sketches illustrating the various types of joint and the use of special jointing materials to maintain water tightness.

This new Code was prepared by a committee of experts convened by the Institution of Civil Engineers.

Copies of this publication may be obtained from the British Standards Institution, Sales Branch, 2 Park Street, London, W.1. Price 12s. 6d. (Postage will be charged extra to non-subscribers.)

NEW FELCO ELECTRIC WINCHES

A new range of electric powered winches has been introduced by Felco Hoists, Ltd., 29 Cromwell Road, London, S.W.8. Available in capacities from two to 12 tons, these winches are of all steel construction and have no bed-plate or platform. All parts of the winch mechanism are fully enclosed, the absence of exposed parts making the equipment weatherproof.

All the gears run in oil baths and are mounted on ball bearings. An electro-hydraulic main brake is fitted in addition to an auxiliary foot brake for controlling the load when operating the winch in the drum idling position.

FIRE RETARDANT PAINT

Albi-Willesden, Ltd., 6 De Vere Gardens, London, W.8, have made a licence agreement with Hadfields (Merton), Ltd., Mitcham, Surrey, to manufacture and sell in the United Kingdom a new fire retardant surface coating, called Albisaf.

This is a ready-mixed paint which can be applied by brush or spray, without pre-treatment of the surface. Albisaf has been tested on timber and fibre insulation board by the Joint Fire Research Organisation and certified Class 1, Surface Spread of Flame, B.S. 476:1953.

Trade Section

NEW RANGE OF MUIR-HILL
LOADERS

Machines Feature Improved Bucket Action

A NEW range of Muir-Hill hydraulic loaders, consisting of three machines, has been introduced by E. Boydell and Co., Ltd., Old Trafford, Manchester.

Faster operation, bigger loads and reduced wear and tear are claimed for the machines, which have been designed to have individual advantages while sharing such features as a 50 per cent. roll-back bucket action combined with a pry-out force of 7,400lb.

The FD2 loader, with front wheel drive, is particularly suited to downhill loading and, in conjunction with its backing-out performance, working in loose material such as sand. With four-wheel drive, the FD4 has been designed for more adverse ground conditions. This model allows the drive to the rear wheels to be disconnected if required. The range is completed with the RD2, a general purpose loader with a turning circle of about 30ft.

All three machines are powered by a Fordson Power Major 3.6 litres four-cylinder diesel engine which develops a maximum of 56 b.h.p. at 1,800 r.p.m. and a maximum torque of 171lb./ft. at 1,200 r.p.m. A Borg and Beck 13in. diameter dry plate clutch transmits power through a constant mesh gearbox providing six forward speeds of 2.1, 2.9, 3.7, 5.3, 7.4 and 13.3 m.p.h., and two reverse speeds of 2.7 and 5.0 m.p.h. Final drive is through a double-reduction driving axle with a four pinion differential and spur bull

Double acting rams of 4½in. piston diameter operate the tip and reset of the bucket and provide more than 7,400lb. pry-out force to the 50 per cent. roll-back bucket action. The main beam lift rams give a tearaway force of more than 6,200lb. when the bucket is fully rolled back.

Hydraulic power is provided by a heavy duty gear type pump driven through a Hardy-Spicer coupling from the engine crankshaft, high pressure fluid passing

through a double selector controlled by twin levers.

The equipments have a height of lift under the lip of the tipped bucket of 11ft. with 12ft. 11in. clearance under the bucket hinge. Maximum outreach is 5ft. 10½in. for the RD2 model and 5ft. 5½in. where the FD2 and FD4 are concerned. Maximum lift height of the beams is controlled by a limiting device to prevent strain on the hydraulic system.

Frame construction of all-welded rolled



RD2 general-purpose loader

steel channel section is common to all three machines together with grouped controls and good visibility from a totally enclosed driver's cab.

A full range of general and special purpose buckets of from ½ cu. yd. to 2 cu. yd. is available for use with the new loaders. Buckets are fitted with abrasion resistant blades and check plates. Extras available include power-assisted steering and hydraulic transmission incorporating torque converter coupling and epicyclic gearbox in lieu of normal clutch and gearbox.

CRANE MAKERS REORGANISE
OVERSEAS MARKETING

CHANGES in the overseas marketing arrangements of the crane manufacturing group, comprising Steels Engineering Products, Ltd., R. H. Neal and Co., Ltd., and F. Taylor and Sons (Manchester), Ltd., who amalgamated a year ago, have been announced by the parent company, Steel and Co., Ltd.

Hitherto, the three companies have had separate overseas marketing organisations but now they will combine forces for selling abroad. For this purpose Steels have divided the world into three major zones and a separate marketing company has been created for each. The British Crane Co., Ltd., with headquarters in London, will organise marketing throughout the sterling area, four of the Outer Seven countries, Africa and Asia. It will operate in three divisions, each covering a separate geographical zone.

The International Crane and Excavator Corporation of New York promote sales throughout the whole of the Western hemisphere and certain other dollar areas, and a European sales company with headquarters in Switzerland will organise marketing in all European Common Market countries and Austria and Switzerland.

In an official statement Steels say that this is part of an overall plan to combat the aggressive bid of Continental crane manufacturers for world markets. French and German manufacturers have been closing their ranks and rationalising production to place themselves in a more favourable position to compete with the larger, but previously less integrated, British industry.

R. H. Neal and Co., Ltd., recently signed an agreement with Unit Crane and Shovel Corporation, of America, to manufacture Unit cranes, excavators, draglines and backhoes, which will be marketed under the name of Neal-Unit.

EXPANSION PLANNED BY
LOMOUNT GROUP

The Lomount Group of Companies, previously known as the Rotinoff Group, have undergone a complete reconstruction since the death of their late chairman in May, 1959.

At a reception given in London last week to mark the opening of their new offices at Sackville House, 40 Piccadilly, London, W.1, it was announced that the policy of Lomount Construction, Ltd., will be to expand substantially during the next few years, both in this country and abroad.

Lomount Vehicles and Engineering, Ltd., will continue its general engineering work, and in particular the production of heavy duty vehicles.

EPOXIDE RESINS USED IN
NON-SKID FLOORING

A new type of non-skid flooring composition based on epoxide resins has been developed by Bakelite, Ltd., 12-18 Grosvenor Gardens, London, S.W.1.

Two methods of making the flooring have been evolved—one utilising a heavily filled resin/hardener mix and the other entailing application of a resin/hardener mix followed by an aggregate filler.

In the first technique, the components are thoroughly mixed in a specified order and the composition trowelled onto the surface, which can be either concrete, metal or wood. With the other method, the components are mixed and applied, the aggregate filler scattered over the coating, and the composition consolidated by rolling.

Full details of recommended mixes, including formulations for making chemically resistant flooring, are contained in Advance Information Sheet E.38, just published by the company.



The FD4 loader

Trade Section

NEW COMPANIES

The undermentioned particulars of new companies recently registered are taken from the daily register compiled by Jordan and Sons, Ltd., company registration agents, 116 Chancery Lane, London, W.C.2:—

Saxon Builders, Ltd., Warren Lane, Long Ashton, Som. £500. Directors: Kenneth A. Saxon, Three Ways, Twelve Acres, Tetbury, Glos.; Glyn Saxon, 199 Lodge Causeway, Fishponds, Bristol.

Harrison and Smith (Builders), Ltd., 26 Broad Street, Birmingham, 1. £1,000. Directors: Bert Harrison, 111 Hampton Lane, Solihull; Kenneth Smith, 108 Wilmott Road, Little Sutton, Sutton Coldfield.

Chance and Terry, Ltd., 42 Craven Street, W.C.2, builders. £500. Directors: Robert Chance, 6 Hever Croft, S.E.9; Wm. W. Terry, 17 Princes Court, Wembley.

Bell and Pearson (Concretes), Ltd., 34 High Street, Hailsham, Sussex, precast and reinforced concrete products. £1,000. Directors: Frederic N. Bell, 3, Hawkwood Drive, Hailsham, Sussex; Wm. E. Pearson, 8 Hawkwood Drive, Hailsham, Sussex; Margaret Bell and Rita M. Pearson.

Roberts-Pothecary Co., Ltd., 33 Pembroke Buildings, Swansea, constructional, civil and electrical engineers. £5,000. Directors: Arthur H. Roberts, 58 Dunraven Road, Sketty, Swansea; Conway Pothecary, 25 Tavistock Road, Sketty, Swansea.

Standbridge Builders (Bournemouth), Ltd., 145 Commercial Road, Parkstone, Poole, Dorset. £5,000. Permanent directors: Robert P. Standbridge and Mimosa D. Standbridge, 31 Springfield Crescent, Parkstone, Poole.

Victoria Plant Hire, Ltd. £100. Directors to be appointed by subscribers. Subscribers: Jean Herbert (company director) and Thos A. Herbert (barrister), 156 Strand, W.C.2.

Leo Clynes, Ltd., builders. £5,000. Directors: to be appointed by subscribers. Subscribers: Leo Clynes and Mrs. B. Clynes, 66 Hampstead Way, N.W.11.

Reading Ready Mixed Concrete Co., Ltd., Buckhurst Hill, Cheapside, Ascot, Berks. £100. Directors: Henry A. Coff, Shadow Lawn, Magna Carta Lane, Wraybury, Bucks.; Michael D. Coff, Saletar, Buckhurst Hill, Cheapside, Ascot, Berks.

Burgess and Son (Builders), Ltd. £100. Directors: Philip J. Burgess and Mrs. Nellie Burgess, 5 Durrants Place, Rowlands Castle, Hants; Valerie A. Kalsey, 3 Kingsway, Rowlands Castle, Hants.

Cheam Builders, Ltd., 103 Cannon Street, E.C.4. £1,000. Directors: Leonard S. E. Jones, 16 Boltons Court, 216/22 Old Brompton Road, S.W.5; Harold T. Fowkes, 19 Tabor Gardens, Cheam, Surrey; Reginald E. Fowkes, 9 Crescent Road, S.W.19.

R. W. Penycate (Contractors), Ltd., 11 Guildford Road, Woking, Surrey, builders. £100. Directors: Reginald W. Penycate, Lonsdale, Upper Manor Road, Farncombe, Surrey; Douglas G. V. Blunden, 37 Nightingale Road, Farncombe, Surrey.

John A. Wilkinson, Ltd., 88 Strouden Road, Winton, Bournemouth, builders. £1,000. Directors: John A. Wilkinson and Dorothy M. Wilkinson, Lynton, Wimborne Road, Moor-down, Bournemouth.

G. M. Tompkins, Ltd., 170 Elmington Road, London, S.E.5, builders. £5,000. Permanent directors: George M. Tompkins and Vera M. Tompkins, Tilsworth, Oakleigh Park North, London, N.20.

L. W. Harding (Builders), Ltd. £100. Directors: Leslie T. W. Harding and Mrs. A. E. Harding, Watercroft, 5 Sevenoaks Road, Otford, Kent; David L. Harding, Grassmere, Worlds End Lane, Farnborough, Kent.

M. R. Manders and Partners, Ltd., 23 Frimley Street, Frimley, near Aldershot, organisational building and civil engineering contractors. £100. Directors: Ernest J. Gelfs, 23 Ferndale Road, Church Crookham, Hants; Michael R. Manders, 91 Gordon Avenue, Camberley, Surrey (both permanent).

Ralgaer, Ltd., 138 Bush House, Centre Block, Aldwych, London, W.C.2, builders. £100. Directors to be appointed by subscribers. Subscribers: Michael Claff, 1 Southfields, London, N.W.4 (accountant); Shirley Hart, 57 Rodney Court, Maida Vale, London, W.9 (secretary).

T. and K. O'Neil, Ltd., 24 Crofts Street, Cardiff, builders. £100. Directors: Kathleen O'Neil, 42 Tydraw Road, Cardiff; George W. Walsh, 42 Ninian Road, Cardiff; William K. O'Neil, Eileen P. O'Neil and Terrence J. O'Neil.

FRENCH M.P.R. COMPRESSOR BEING MADE IN U.K.

THE French M.P.R. rotary compressor is now being made under licence in this country by Bellis and Morcom, Ltd., Birmingham.

Designed to have a minimum of moving parts, the unit incorporates horizontal, free-sliding blades, machined from special resin bonded material and mounted in longitudinal slots in a rotor, which are flung outwards under the influence of centrifugal force, maintaining constant contact with the cylinder walls.

The cylinder, suitably ported, is cast in one piece with integral water jacket, feet and inlet and outlet branches. The location of these branches on the horizontal plane of opposite sides of the cylinder avoids reversal of the air flow and prevents pre-heating of the incoming cool air. The cylinder head castings which bolt directly onto each end of the cylinder are also water-cooled and carry the main shaft bearings in addition to forming part of the shaft packing housing.

Heavy duty roller bearings carry the rotor shaft, which is fitted with seals of the plastic axial type, automatically adjusting themselves for wear. Lubrication to the cylinder and bearings is provided by an oil pump, with individual adjustment to each point and a sight flow glass.

Standard units have one or two stages in line but due to the number of cylinder sizes available other arrangements of stages and cylinders are easily accommodated to meet most requirements for air compressors, gas compressors, boosters and vacuum pumps. On normal two stage machines an inter-cooler is fitted between stages to reduce the air inlet temperature to the second stage and to remove some of the moisture present in the air.

The range of operation of the rotary compressors is up to 50 p.s.i.g. for the single stage machines and from 50 to 110 p.s.i.g. for the two stage machines, with outputs from 100 to 600 c.f.m. in the first instance.

A direct coupled constant speed a.c. electric motor is the recommended type of drive, but almost any form of drive is suitable.

TRADE NEWS IN BRIEF

Allplant, Ltd., have opened an office and plant depot at Green Lane, Blackheath, Birmingham, under the control of joint managing director, Mr. Raymond G. Parker.

Laere, Ltd., announce that in 1959 contracts to the value of £100,000 were placed with the company for suction runway sweeping machines for the R.A.F., R.A.E. Establishment and overseas air forces. Further contracts to the value of £75,000 have been received in the first quarter of 1960.

Powell Duffryn, Ltd., have acquired the whole of the share capital of Kelmac, Ltd., who own a limestone quarry at Nether Kellet about 30 miles north of Preston.

The Cellacite Co., Ltd., announce the appointment of the following representative company in Sweden: Henry Wallenburg and Co., Birger Jarlsgratan 4, Stockholm.

The Timber Development Association, 21 College Hill, London, E.C.4, have prepared the following research publications: "A Report on the First Stage of the Investigation on the Use of Home-grown Softwood Thinnings in House Construction" (price 3s. 6d.), and "Utilisation of Home-grown Thinnings for House Construction" (price 3s. 6d.).

United Dominions Trust are opening a new branch office at 70 Bridge Street, Newport, Mon. Tel: Newport 67176/8.

Leicester, Lovell and Co., Ltd., North Baddesley, Southampton, have prepared a revised edition of their catalogue of products "A Guide to Resins and Glues for Industry."

The Sheffield depot of Scaffolding (Great Britain), Ltd., is now at Petre Street, Sheffield, 4. Tel: Sheffield 388212.

Hargreaves Quarries, Ltd., have bought the plant and the sand and gravel business at Barmpton Quarry, Haughton-le-Skerne, near Darlington, previously operated by The Eldon Brickworks Co., together with the lease of further sand and gravel land in the Darlington area.

Westminster Plant Co., Ltd., a member of the Costain Group, have been appointed purchasing and sales agents for plant and equipment on behalf of Richard Costain, Ltd., and their associated companies. They also hold the franchise for hire of plant on their behalf.

F. H. Bourner and Co. (Engineers), Ltd., have opened a sales-service depot at 29 and 31 Grange Street, Grangemouth, Stirlingshire. "Road Vehicle Lubrication" is the title of a 76-page handbook just published by Wakefield-Dick Industrial Oils, Ltd., Castrol House, Marylebone Road, London, N.W.1.

Wates, Ltd., have created a new property development division with offices at 5 Cophall Buildings, Cophall Avenue, London, E.C.2.

The Astley Industrial Trust, Ltd., announce that their Blackburn office address is now 40b Preston New Road, Blackburn.

The Michelin Tyre Co.'s branch office and depot in Liverpool is now established at 57 Hill Street, Liverpool, 8. Tel.: Royal 5112/3.

Hadfields, Ltd., East Hecla Works, Sheffield, 9, have produced a leaflet describing Hecla 174, a new hard material able to withstand alternate heating and cooling without the occurrence of crazing.

"Capital for Industry and Trade" is the title of a new leaflet produced by The Charterhouse Group, Ltd., 30 St. Swin's Lane, London, E.C.4, which outlines the services provided by member companies.

The Natural Asphalte Mine-Owners and Manufacturers Council, 14 Howick Place, Victoria Street, S.W.1, have issued a technical information sheet (No. 4/60) featuring mastic asphalt on typical asbestos decking.

United Dominions Trust are opening a new office at 7 East St. Mary's Gate, Grimsby, on May 16. Tel.: Grimsby 57218/9.

From the Acoustics Department, Armstrong Cork Co., Ltd., Kingsbury, London, N.W.9, a copy of their "Acoustics 1960" guide.

DEVICE SPEEDS PILE PITCHING

Dudley Vale, Ltd., 3 Buckingham Place, London, S.W.1, are now marketing a device to facilitate the pitching of steel sheet piles.

Known as the Dudley Vale Pile-Pitcher



it does exactly the same job of work as the conventional shackle, but the pile is released by pulling on a trip rope. Consequently, the entire operation is speeded up, and a higher degree of safety is achieved, state the manufacturers.

Trade Section

ALLIS-CHALMERS TL.16D LOADER AVAILABLE IN UK.

A NEW Allis-Chalmers tracto-loader, the TL.16D, is now available in this country through Mackay Industrial Equipment, Ltd., Faggs Road, Feltham, Middx.

The machine features four-wheel-drive, a complete power shift transmission with a 3.5 to 1 single stage hydraulic torque converter drive which multiplies engine torque up to 350 per cent. Large planetary axles provide more rim pull with less strain on the axles, transmission, universal joints and differential. The axles are pin-connected directly to the frame with 2in. diameter steel pins, instead of by the usual U bolt method.

Powered by an Allis-Chalmers 104-h.p. four-cylinder diesel engine, the TL.16D has three speeds in both forward and reverse

with a top speed of 27 m.p.h. For safety and ease of handling it has power steering and four-wheel power brakes which can be operated with the right or left foot. It also has a separate positive parking brake fitted to the transmission output shaft.

Dumping height is 9ft. from the cutting edge of a 2 cu. yd. standard bucket tipped at 45 degrees with a 3ft. 0 $\frac{1}{2}$ in. reach. Through the use of the straight-line linkage of the main booms with the lift and dump cylinders, maximum power is transmitted to the bucket. Both cylinders with chromium plated rods are mounted well away from the bucket.

As the principal function of a tractor shovel is to carry loads, the governing factor of its capacity is the weight it can

carry safely and with ease, and not the capacity of the bucket. For this reason the manufacturers provide a range of buckets for the TL.16D with capacities from 1 $\frac{1}{2}$ cu. yd. to 4 cu. yd. all of which are based on a 7,000lb. carry capacity and a lifting capacity of 17,000lb.

General dimensions are as follows: overall length (bucket at carry position) 17ft. 6in.; overall width 7ft. 6in.; ground clearance 1ft. 3in.; tyres front and rear 14.00 x 24 12 ply; tread front and rear 5ft. 10 $\frac{1}{2}$ in.; weight lb. (shipping) with 2 cu. yd. bucket 18,000.

PEDESTRIAN-OPERATED STACKER CAN LIFT 1,100LB.

A range of pedestrian-operated stackers, produced in Sweden, is now available in this country through Rolatruc, Ltd., 20 Old Compton Street, London, W.1. These have an electro-hydraulic lift and a capacity of 1,100lb. or 2,200lb. at a 24in. load centre. Standard lift heights are 92in., 108in., 124in. or 132in.

The trucks have a turning radius of 69in. and an overall length of 63in. including forks. Unladen weight is less than 900lb.

All main components such as mast, lifting forks, mast channels, and support legs are one-piece pressings of high tensile steel. The hydraulic unit is leak proof, incorporating a special packing material. Lifting speed is 33 f.p.m. with the $\frac{1}{2}$ -ton model and 16 f.p.m. with the one-ton model, and the lowering speed is adjustable. Single, telescopic and free lift masts may be fitted.

Mains-operated models are available as an alternative to the battery powered units and stackers with a manually operated hydraulic system can also be provided.



Model TL.16D tracto-loader

E. P. ALLAM INTRODUCE NEW RANGE OF VIBRATING ROLLERS

A RANGE of vibrating rollers, without gearbox or mechanical transmission, is now being produced by E. P. Allam and Co., Ltd., 132-135 Sloane Street, London, S.W.1. Coinciding with the firm's 70th anniversary, the machines are the first such equipment to be manufactured by the company.

Demonstrations of the range, which consists of three machines, were recently given to visitors at the Southend works. In each case standard components have been employed for simplicity in manufacture and assembly, and large electric vibrating motors are fitted instead of mechanical vibrators, clutches, vee-belt and pulley drives and gearboxes usually employed. The electric vibrators are driven by alternators of a permanent magnet type which eliminate commutators and brush gear, thus requiring no maintenance, and a variable frequency and voltage can be produced to suit the induction winding vibrator motors. Vibrating frequencies to suit the varying materials to be compacted and the output force, can be regulated by adjusting engine speed.

The small roller, which has been designed primarily with municipal authorities in mind, is hand propelled, and comprises a totally enclosed electric vibrating motor mounted inside the roller, with a small three-phase alternating set. When not required for rolling the alternator can be used to drive electric breakers or for lighting. Output force is equivalent to a 25cwt. roller.

The medium size roller is automatically propelled by a motor driven from the alternating set with a forward, reverse, or stop, operated from a simple switch. Vibration is provided by two standard contra-rotating electric vibrating motors mounted inside the rollers, their forces combining in the vertical plane to provide maximum concentration of force on the material to be compacted; the electric vibrators are also driven from the small alternating set, mounted above the roller, the output of which can be used for other purposes when not required for rolling. The output force is equivalent to a 2 $\frac{1}{2}$ -ton roller.

The tractor-drawn tandem rollers are similar in design to the medium roller,

being interchangeable, and include two standard contra-rotating electric vibrating motors; they can consist of two, three or four rollers coupled together, according to the width required to be compacted. An alternator is mounted inside the tractor and coupled to the tractor engine, and the speed and frequency ratio between the engine and the alternator are such that faster vibrating frequencies can be obtained if necessary, making each single roller equivalent to a 3-ton roller. A feature of this equipment is that the rollers can be removed from the tractor and substituted by two, three or four vibrating plates, each plate being complete with two standard contra-rotating electric vibrating motors. Where necessary for economy reasons the vibrators can be removed from the rollers and fitted to the plates, as they are interchangeable. In all cases, the tractor can be driven in forward or reverse thus permitting several passes over an area without turning.

The tractor itself is a standard machine manufactured by Ransomes Sims and Jefferies, Ltd., to which has been fitted a larger engine to provide capacity for the alternator. It is available with tracks or tyred wheels, and when not required for vibrating, it can be used as a light-weight grader, dozer, or for backfilling. As in the other models the alternating set can be used for power tools or lighting.

BUILDING CENTRE EXHIBITION

The London Building Centre is to hold an exhibition of "New Building Materials" at 26 Store Street, W.C.1, from May 17 to 28.

This will be an exhibition of samples on similar lines to that held last year, the products shown being new in the last few months and, in some cases, being exhibited for the first time.

Current Construction Activities

PROJECTS

CONTRACTS

AWARDS

THIS editorial feature provides readers with a comprehensive news service covering forthcoming private and public construction work. Commencing on this page information is given concerning future projects followed by details of tenders being invited. In the third section will be found news of tenders recommended for acceptance, tenders accepted and contracts awarded. Attention is also drawn to the advertisements covering contracts and appointments appearing in the front part of the *Journal*.

BUILDING AND DECORATING (See also Housing Schemes)

Accrington, Lancs.—Divisional Health Committee have approved scheme to repair structural defects at Broad Oak Hostel. Estimated cost £2,400.

Alnwick, Northumb.—Howick Co-operative Society, Ltd., propose alterations and additions to slaughterhouse to plans by the C.W.S. Architects' Department, 90 Westmorland Road, Newcastle upon Tyne.

Ampthill, Beds.—M.E. have approved scheme for the erection of three additional classrooms for the new primary school at Saunders Piece, for Co. E.C.

Annfield Plain, Dur.—Extensions covering 100,000 sq. ft. are proposed for Ransome and Marles Bearing Co., Ltd., Greencroft Estate, J. H. Napper and Partners, 133 Osborne Road, Jesmond, Newcastle upon Tyne, are the architects.

Ashington, Northumb.—Co. E.C. to submit to the M.E. proposal to build residential accommodation for students at County Technical College. Estimated cost £60,000.

Ayr.—Dean of Guild Court have approved the following: Alterations to 1 forge, for Scottish Stamping and Engineering Co., Ltd., Neptune Works, estimated cost £10,400; erection of a public-house at Limond's Wynd, for John Ritchie, 12 Dalmullington Road, £12,000; erection of offices, for R. and A. Scott (Iron and Steel), Ltd., 9 York Street, £3,500.

Bacup, Lancs.—Parks Committee have approved the erection of a changing room with showers at Stacksteads Recreation Ground. Estimated cost £1,000.

Borough Engineer to proceed with preparation of layout plan for the Town Centre, indicating proposed land uses.

Barrow-upon-Soar, Leics.—R.D.C. have approved in principle, scheme for construction of new council chamber, offices and storage accommodation. Estimated cost £35,000 to £40,000.

Basingstoke, Hants.—B.C. recommended to approve phase 1, comprising main store, store-keeper's office, etc., of scheme for the re-organisation of the town yard. Estimated cost £11,803.

Beverley, Yorks.—B.C. recommended to appoint Anthony Steel and Owen, 199 Anlaby Road, Hull, architects for erection of administration block at the Cattle Market.

Birmingham.—Housing Committee approved in principle scheme for the construction of a multi-storey car park at Bunbury Road, Northfield.

W. L. Handley, Ltd., 142 Suffolk Street, to erect premises in Holloway Head at corner of Blucher Street. L. F. Payne, 24 Cornwall Road, Brookhouse, Walsall, is the architect, and Silk and Frazier, 35 Portland Road, Birmingham, 16, quantity surveyors for the scheme.

Plans are being prepared by Johnston and Wright, 13 Castle Street, for converting the Argyll Cinema, Harraby, into petrol filling station, for the County Garage Co., Ltd.

Chelmsford, Essex.—C.C. have approved scheme for adaptations at Maynetress House, near the Shire Hall to provide additional accommodation for judges attending the Essex Assizes. Estimated cost £13,000.

Chester-le-Street, Dur.—Fennell and Baddiley, Bridge End Chambers, are the architects for new premises for the Chester Moor Ex-Servicemen's Club.

Clietheroe, Lancs.—B.C. to apply for sanction to borrow £11,800 for market modernisation scheme.

Colerain, Londonderry.—Ulster Chipboard, Ltd., Castleroe, propose to extend their factory. Estimated cost £40,000.

Consett, Dur.—Villa Real Garages, Ltd., are to erect showroom and transport cafe. The architect is W. E. Casson, 41 Buston Terrace, Newcastle upon Tyne.

ments to the existing temporary Sterrix County Primary School. Estimated cost £11,288.

Bowland, Yorks.—R.D.C. have approved plans for construction of a swimming pool at Gisburn Park, Gisburn, for J. R. Hindley.

Brentford and Chiswick, Middx.—B.C. recommended to appoint Donald W. Insall, 3 Lyall Street, London, S.W.1, as architect, for scheme for restoration to Boston Manor House; to approve schemes for repair and improvement to (a) 75 Chiswick High Road, (b) 91 Barrowgate Road, (c) 52 Alwyn Avenue, (d) 32 Grosvenor Road, (e) 45 Wilton Avenue, (f) 18 Clifton Gardens, (g) 45 Belmont Grove, (h) 18 Cleveland Avenue, and (i) 12 Holly Road. Estimated cost (a) £4,850, (b) £1,750, (c) £1,268, (d) £1,021, (e) £1,035, (f) £1,081, (g) £1,205, (h) £1,084, and (i) £1,049.

Brentford, Middx.—Firestone Tyre and Rubber Co., Ltd., propose to expand and modernise their factory at Great West Road.

Bridlington, Yorks.—Hammonds United Breweries, Ltd., propose erection of public house on West Hill estate.

Bristol.—Nuthalls (Caterers), Ltd., Victoria House, Southampton Row, London, W.C.1, propose improvements to the Grand and Grand Spa Hotels. Estimated cost £120,000.

Housing Committee have approved scheme for 64 lock-up garages for the multi-storey flats at Barton Hill. Estimated cost £32,500.

Burnley, Lancs.—Manchester Regional Hospital Board Building and Works Committee have approved, in principle, the preparation of working drawings and bills of quantities, for conversion of laundry into kitchen and staff dining room; demolition of a wing affected by subsidence and the provision of a new boilerhouse at Bank Hall Maternity Hospital.

B.C. recommended to approve scheme for 12 additional dressing rooms with new heating chamber, showers and toilet facilities at Towneley playing fields. Estimated cost £10,977.

Bury, Lancs.—Manchester Regional Hospital Board Building and Works Committee have approved, in principle, scheme for provision of a twin operating theatre unit at the General Hospital, and following Ministry approval working drawings and bills of quantities will be prepared. Estimated cost £126,739.

Canterbury, Kent.—Joint Education Committee recommended to submit to Ministry for approval the draft schedule of accommodation for the second instalment of the New Technical College.

Carlisle, Cumb.—Ministry have approved the building of an R.C. church on land behind Scalegate Road, for the Rev. P. Begley.

D. W. Danson, 54 Lowther Street, prepared plans for light industrial estate at Burgh Road, for G. W. Graham-Bowman.

W. B. Edwards and Partners, 5 Claremont Buildings, Newcastle upon Tyne, have been appointed architects by the City Council for redevelopment scheme in the central area of the city, which includes the erection of shops, offices, etc.

City Council to compile a list of contractors wishing to tender for the first stage of a £600,000 scheme for a new civic centre. The architects are C. B. Pearson and Son, 24 Loxford Street, All Saints, Manchester, and the quantity surveyors, Lav and Partners, 396 Wilmslow Road, Withington, Manchester, 20.

Plans are being prepared by Johnston and Wright, 13 Castle Street, for converting the Argyll Cinema, Harraby, into petrol filling station, for the County Garage Co., Ltd.

Chelmsford, Essex.—C.C. have approved scheme for adaptations at Maynetress House, near the Shire Hall to provide additional accommodation for judges attending the Essex Assizes. Estimated cost £13,000.

Chester-le-Street, Dur.—Fennell and Baddiley, Bridge End Chambers, are the architects for new premises for the Chester Moor Ex-Servicemen's Club.

Clietheroe, Lancs.—B.C. to apply for sanction to borrow £11,800 for market modernisation scheme.

Colerain, Londonderry.—Ulster Chipboard, Ltd., Castleroe, propose to extend their factory. Estimated cost £40,000.

Consett, Dur.—Villa Real Garages, Ltd., are to erect showroom and transport cafe. The architect is W. E. Casson, 41 Buston Terrace, Newcastle upon Tyne.

Cumberland.—E.C. have approved development scheme for the Cumberland and Westmorland Farm School at Newton Rigg, near Penrith. Estimated cost £145,000.

Cupar, Fife.—Dean of Guild Court have approved the erection of a High School, for C.C. Estimated cost £329,000.

Doncaster, Yorks.—T. H. Johnson and Sons, 6 South Parade, are the architects for conversion of Warmworth Hall, near Doncaster, into offices, for British Ropes, Ltd.

R.D.C. to apply for sanction to borrow £4,750 for purchase of land in Hollybush Lane, and £5,125 for erection of garages on the site.

Dover, Kent.—B.C. have approved plans for the erection of a motor showroom with stores and offices above at Russell Street, for Handford Motors, Ltd., 6-1 Folkestone Road, Dover; an extension of 13,000 sq. ft. to the London Fancy Box Co. factory at Granville Street, and 4,500 sq. ft. of office space.

Dublin, Eire.—Gresham Hotel Co., Ltd., Dublin, propose to erect a new hotel on 4½ acres of Trinity College's Botanic Gardens. Estimated cost £1m.

Dudley Wores.—Birmingham Regional Hospital Board recommended to approve in principle scheme for the provision of additional sanitary facilities to wards F and H at Burton Road Hospital. Estimated cost £7,890.

Dukinfield, Ches.—B.C. recommended to approve plans for the erection of a secondary school at Birch Lane, for Rev. E. Coughlan, St. Peters, Stalybridge.

Ealing, Middx.—B.C. recommended to approve scheme for erection of 40 garages at junction of South East Northolt and Elm Trees estates.

Edinburgh.—Alison and Hutchison and Partners, 4 Rothesay Terrace, are the architects for the erection of a new isolation unit and staff accommodation at Elsie Inglis Hospital, for Edinburgh Southern Hospitals Board of Management. Ian Hunter and Partners, 46 Palmerston Place, 12, are the consulting engineers. Estimated cost £25-30,000.

Dean of Guild Court have approved the erection of new buildings at York Place and Duke Street Lane, for Scottish Union and National Insurance Co., 35 St. Andrew Square, Estimated cost £35,000.

Elgin, Moray.—North-Eastern Regional Hospital Board have approved improvement and alterations at Spynie Hospital. Estimated cost £30,000.

Falkirk, Stirlings.—Dean of Guild Court have approved the following: erection of building at Gowanbank Iron Works, for M. Cockburn and Co., Ltd., estimated cost £29,000; erection of community centre at Haugh Street, for The Haugh Gardens Social Club, £7,500; erection of showroom at Cockburn Street, for Boswell Bridge Motors, Ltd., 19 Bellshill Road, Bothwell, £7,000; extension of timber storage shed at the Etna Timber Yard, Dalderse Avenue, for Robert Melville and Co., Ltd., St. Johns' Sawmills, £6,150.

Felling, Dur.—Cordingley and McIntyre, Owengate, Durham City, are the architects for church hall at St. Mary's Church, Heworth.

Haslingden, Lancs.—C.C. have approved the erection of a two-form entry grammar school and a five-form entry secondary school.

Garforth, Yorks.—West Riding E.C. to submit to the M.E. proposal for a 15-form entry secondary school. Estimated cost £725,000.

Gateshead, Dur.—Cussins, Ltd., The Drive, Gosforth, are planning offices, etc., four or five storeys high at foot of High Street.

Glastonbury, Som.—B.C. recommended to approve plans for the development of existing school at Glastonbury St. Benedict School, for Co. E.C.

Godalming, Surrey.—B.C. recommended to approve revised sketch plans for youth centre on land adjoining Crown Court car park. Estimated cost £11,726.

Gosforth, Northumb.—U.D.C. will shortly consider a report from its consultant architect, Professor J. S. Allen, 26 Jesmond Road, Newcastle upon Tyne, on the provision of a new shopping centre.

Halifax, Yorks.—B.C. to provide new heating system for Borough Police Headquarters. Estimated cost £3,860.

Hawick, Roxburghs.—Dean of Guild Court have approved the erection of a factory, for

Ann Howard, Ltd., 154 Weensland Road. Estimated cost £30,000.

Heckmondwike, Yorks.—The Governors of the Heckmondwike Grammar School hope for an early start on extensions. Estimated to cost £99,000.

Holsworthy, Devon.—Plymouth and South Devon Hospital Management Committee propose scheme for the provision of an X-ray department and improvements at Holsworthy Hospital.

Honiton, Devon.—B.C. recommended to prepare plans for the provision of toilet accommodation at the swimming pool.

Hull.—Town Planning Committee have approved 10-acre site at Stoneferry, for refuse composting plant. Estimated cost £100,000.

City Council have approved in principle the spending of £637,937 on new central abattoir in Commercial Road, Kingston Street, Cogan Street area.

Thorton-Varley, Ltd., Prospect Street, are to extend the premises. Estimated cost £250,000.

City Council have approved in principle preliminary estimates for open-air baths at East Park, estimated cost £46,000; sketch plans for new hostel for aged people to be erected at the corner of Beverley Road and Clough Road, to be submitted to the Ministry; City Council approved in principle outline application for conversion of the Savoy Cinema, Holderness Road into retail shops.

Ilford, Essex.—B.C. recommended to approve schemes for the provision of dressing accommodation at South Park and Hainault recreation ground during 1960/61. Estimated cost £8,500 and £4,795, respectively.

Ilkley, Yorks.—It is hoped to commence work next March on the extensions at Ilkley Grammar School. Estimated cost £100,000.

Ipswich, Suffolk.—B.C. have approved outline layout for the redevelopment of the Tolle-mache brewery site at Upper Brook Street as a shopping precinct and as an extension of Carr Street departmental store, for F. W. Woolworth and Co., Ltd., London, N.W.11. No development is likely to take place within 18 months.

Kingston-upon-Thames, Surrey.—J. Seymour Harris and Partners, 3-4 Greenfield Crescent, Edgbaston, Birmingham, 15, are the architects for a development of six shops on the ground floor and offices on the two upper floors at the corner of Richmond Road and Cromwell Road, for Murrayfield Real Estate, Ltd., 3 Albemarle Street, London, W.1.

Lancaster.—Lancaster and Morecambe Divisional Education Executive have submitted to the Lancs. Co. E.C. plans for reconstruction of swimming bath at Ripley Boys' C.E. Secondary School. Estimated cost £10,674.

Leeds.—Town Planning Committee have granted planning permission for £4½m. scheme for amalgamating the City and Central railway stations in Leeds. Scheme is subject to detailed plans being submitted for the proposed 12-storey office block and for proposed car parking arrangements.

City Architect to prepare plans for new swimming baths at Westgate. Estimated cost £500,000.

Loughborough, Leics.—Ministry have approved B.C.s application for permission to develop premises in Baxter Gate as a covered market.

Mansfield, Notts.—B.C. recommended to approve plans for alterations to toilet block and extension to boiler house at Mansfield School of Art, for Co. E.C.

B.C. recommended to approve factory extension at Corporation Street, for R. L. Jones and Co., Ltd., St. Johns Works, Mansfield.

March, I. of E.—Quantities are being prepared for the erection of a Baptist church for the Trustees, J. E. Mitchell, 15 Dartford Road, March, is the architect and Smart and Partners, Market Place Chambers, Peterborough, quantity surveyors for the scheme.

Middlesbrough, Yorks.—Middlesbrough Golf Club, Ltd., propose new premises. Estimated cost £7,000.

P. R. Middleton and Partner, 111 Albert Road, are the architects for shops at 261-279 Acklam Road for M. Thompson and partner, and bank and offices at Albert Road for the District Bank, Ltd.; Kitching and Co., 21 Albert Road, prepared plans for additions to factory in Suffolk Street for Greco Brothers, Ltd.; Ind Coope, Ltd., are to extend the Corporation Hotel, Albert Road, to plans by Garbutt, Archibald and Archibald, 23 Albert Road; alterations and additions are proposed to shop and offices in Linthorpe Road and Gilkes Street for Collingwood and Son, Ltd., the architects are Kitching and Co., 21 Albert Road, Middlesbrough.

Mitcham, Surrey.—B.C. recommended to approve, subject to conditions, plans for the erection of a building of 16,626 sq. ft. (blocks J, K and L) at James estate, 132 Western

Road, for Transcription Manufacturing and Recording Co., Ltd.

Morpeth, Northumb.—Ministry have approved proposals for the development of Northgate and District Hospital for Newcastle Regional Hospital Board. P. H. Knighton, chief architect.

Newbury, Berks.—B.C. have approved plans for a banking office with office accommodation over at 18-19 The Broadway, for Lloyds Bank, Ltd., 71 Lombard Street, London, E.C.3.

Newcastle upon Tyne.—Town Planning Committee have approved outline proposals for erection of a new modern hotel in Northumberland Road, for J. T. Bell and Sons. Plans are being prepared by A. A. E. Trofimov of Cotton, Ballard and Blow, Haymarket House, Newcastle, 1.

Newcastle upon Tyne.—Waring and Netts, 36 Jesmond Road, are the architects for warehouse in Blenheim Street for J. Sharff and Co., Ltd.; factory extensions are proposed in Industry Road for Jackson Associated Manufacturers, Stephenson, Gillis and Partners, architects, Saville Chambers, North Street; plans prepared for offices, stores, etc., at Portland Terrace for United Automobile Services, Ltd., Fennell and Baddiley, architects, Bridge End Chambers, Chester-le-Street; plans prepared by Henry Wood, 2a Ridley Place, for erection of a branch library at Denton Burn, for the City Council; Church of the English Martyrs and meeting hall are to be erected at Stamfordham Road to plans by David Brown, 10 Lambton Road.

The Council of King's College have approved a scheme for a new refectory building and extensions to the Students' Union and work will start next year, the architects are Raglan Squires and Partners and William Whitfield, 3 Hobart Place, London, S.W.1; no contracts have yet been placed by King's College for the erection of an applied science and mathematics block at Eldon Place, the land has already been cleared, Richard Sheppard, Robson and Partners, architects, 5 Southampton Place, London, W.C.1.

Sketch plans approved for the Westbourne Avenue R.C. Secondary School, David Brown, architect, 10 Lambton Road, Jesmond, Newcastle upon Tyne; E.C. is to spend £7,000 on the erection of additional classrooms at Elswick Road School; City Architect has prepared sketch plans for the College of Further Education at Maple Terrace.

Northallerton, Yorks.—Sketch plans have been approved for additional accommodation for nurses at the Friargate Hospital, for Newcastle Hospital Board. P. H. Knighton, chief architect.

Northamptonshire.—County Architect to prepare quantities and obtain tenders in due course for erection of new Kettering Grammar School.

North Riding.—Co. E.C. have appointed Davis, Belfield and Everest, 9 Ashley Place, London, S.W.1, quantity surveyors for primary school at Ormesby. The architect is D. C. Hall, Duke Street, St. James's, London, S.W.1.

Co. E.C. approved sketch plans for extensions to Richmond Girls' High School and the new Nunthorpe County Modern School.

Northumberland.—E.C. have approved re-modelling of Milfield County Primary School. Estimated cost £20,822.

North Walsham, Norfolk.—U.D.C. have approved outline application by Black Cat Service Station, Ltd., Norwich Road, North Walsham, to convert the Oaks Restaurant into a car showroom and store; subject to conditions, application by Norfolk Canneries, Ltd., Milfield, North Walsham, for permission to erect a two-storey block of offices on land adjoining Norwich Road.

Orrell, Lancs.—Magee, Marshall and Co., Ltd., Crown Brewery, Bolton, are to erect an hotel in City Road.

Paisley, Renfrews.—Alison and Hutchison and Partners, 4 Rothesay Terrace, Edinburgh, 3, are the architects for extensions to the technical college, including laboratories, lecture rooms, administrative rooms and a refectory, for Board of Governors. Estimated cost £500,000.

Port Glasgow, Renfrews.—Dean of Guild Court have approved the following on the industrial estate: Erection of a new factory of 85,000 sq. ft., for Playtex, Ltd., Playtex Park, estimated cost £215,000; erection of a new factory of 56,860 sq. ft., for Aircraft-Marine Products (Great Britain), Ltd., £152,085; extension of factory by 3,270 sq. ft., for Wovenair, Ltd., £10,630.

Rainford, Lancs.—Frank Franklin and Sons, Ltd., Wigan, seeking site for new factory.

Redditch, Worcs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for extending the physiotherapy department at Smallwood Hospital. Estimated cost £5,795.

Rochdale, Lancs.—B.C. have approved outline application by David Bridge and Co.,

Ltd., Castleton, for construction of new erecting shop, office and car park at Queensway.

Rotherham, Yorks.—Borough Engineer to be instructed to prepare plans for erection of a two-storey building at the Odeon car park, for use as civic restaurant.

Ryton, Dur.—Morrison and Short, 11 Clayton Road, Newcastle upon Tyne, have prepared plans for the erection of seven lock-up shops at Lanehead, for Close and Illingworth, 30 Langhorn Street, Newcastle upon Tyne.

Salford, Lancs.—City Town Planning Committee have approved plans for two-storey offices at Douglas Green, for Charles Weston and Co., and rebuilding of public-house, Railway Inn, and 48-50 Oldfield Road, for Wilson's Brewery, Monsall Road, Manchester, 10.

M.E. have authorised another £1,040,000 on extensions to the Salford Royal Technical College of Advanced Education.

Sedgefield, Dur.—J. M. Angus, 3 Gallowgate, Newcastle upon Tyne, is the architect for the erection of new club premises, for Fishburn and District Social Club.

Sheffield.—Work to start next year on the erection of a new central telephone exchange in Button Lane. Building designed by T. F. Winterburn, Ministry of Works (Chief Architect's Division), Abell House, John Islip Street, Westminster, S.W.1. Estimated cost £330,000.

Sheffield.—West Riding C.C. to commence work in the autumn on the erection of a comprehensive school at Dinnington. Plans by Hardy Glover of Basil Spence and Partners, 40 Moray Place, Edinburgh, 3. First phase estimated at £249,000.

Husband and Co., 388 Glossop Road, Sheffield, 10, are the architects for new administrative office block to be erected in Granville Road, for British Railways. Tenders hoped to be in by the end of the year.

Yorke, Rosenberg and Mardell, 2 Hyde Park Place, London, W.2, are the architects for erection of a modern store incorporating a multi-storey car park on a site bounded by Baker's Pool, Cambridge Street, Burgess Street and Cross Burgess Street, for the John Lewis Partnership.

Shrewsbury, Salop.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of a temporary outpatients' department at Copthorne Hospital. Estimated cost £27,925.

Slough, Bucks.—North West Regional Hospital Board have submitted to Ministry for approval, a proposal for a maternity department as the second stage of the Slough New Hospital, Wexham Park.

Southampton.—B.C. recommended to approve sketch plans for improvements to lavatories at Shirley Warren and St. Jude's Infants' Schools, extensions and alterations at Millbrook Secondary Mixed Boys' School and construction of a heat treatment workshop at the Technical College; prepare scheme for the conversion of 2 Chatsworth Road into a hostel. Estimated cost £2,000.

Stafford.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the modernisation of the central kitchen at St. George's Hospital and provision of an office block for the Stafford Hospital Management Committee. Estimated cost £36,406 and £25,500, respectively.

Stoke-on-Trent, Staffs.—City Council recommended to apply for sanction to borrow £6,059 and £6,930, respectively, for improvements at Dresden C. of E. Junior and Infants' School and Boother C. of E. Infants' School.

Stoke-on-Trent, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, schemes for the provision of (a) medical staff quarters and (b) an accident department, ward block and operating theatre suite at North Staffordshire Royal Infirmary. Estimated cost (a) £35,088 and (b) £314,256.

Sunderland, Dur.—Seaside Development Committee have approved construction of buildings at Seaburn and Roker. Estimated cost £1,600.

Surbiton, Surrey.—B.C. recommended to appoint S. P. Anderson and Eglinton, 20a Eden Street, Kingston-upon-Thames, as architects, and Irving Todd, 44 Welbeck Street, London, W.1, as quantity surveyor for the erection of a public convenience at public library.

B.C. recommended to approve schemes for erection of office block at factory, Davis Road, for Thermacoust, Ltd.; scheme for extension to factory at Davis Road, for Marsden and Shiers, Ltd.

Sutton and Cheam, Surrey.—B.C. recommended to submit to C.C. for approval, scheme for erection of Youth Centre at Sutton Common Road.

B.C. recommended to approve, subject to conditions, schemes for erection of industrial buildings at Hillview Works, Hillview Road, Sutton, for Dawson-Keith, Ltd.; demolition of house and erection of ground and first floor extension at rear of self-service store and construction of service yard at rear of 165/169 High Street, Sutton, for John Gardner (London), Ltd., 1 Dover Street, London, W.1; demolition of existing buildings and erection of petrol filling station, repair garage and showroom at 47/51 Oldfields Road, Sutton, for P. G. Bundock; alterations and erection of a three-storey extension to existing retail store at 146/148 High Street, Sutton, for Marks and Spencer, Ltd.

Tynemouth, Northumb.—Tasker and Partners, 25 New Bridge Street, Newcastle upon Tyne, are the architects for hall for the Holy Saviour Parish Council; revised sketch plans prepared by J. G. Cowe and Son, Claremont Chambers, Claremont Place, Newcastle upon Tyne, for proposed Whitehouse Primary School; J. Smeds, Camden Street, North Shields, prepared revised plans for additions to Tynemouth High School; S. Storer, Fawcus Buildings, Reed Street, North Shields, to erect two pairs of shops at corner of Heaton Terrace and the Coast Road, North Shields.

Walthamstow, Essex.—B.C. recommended to invite tenders from selected contractors for the erection of public conveniences at Willow Walk.

Wanstead and Woodford, Essex.—B.C. recommended to approve scheme for the provision of additional garages at Old Mill Court, estimated cost £2,450; appoint Tooley and Foster, Midland Bank Chambers, Queens Road, Buckhurst Hill, Essex, as architects for scheme 2 of improvement of the Sir James Hawke Hall.

West Bromwich, Staffs.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for extending the porter's lodge at Hallam Hospital. Estimated cost £2,100.

Westminster.—The City Council will invite tenders in the near future for piling works for the multi-storey parking place proposed at Audley Square and Waverton Street. Tenders for the main contract will be invited a few weeks afterwards.

West Sussex.—C.C. recommended to approve scheme for additional accommodation at the new county secondary school at Roundstone Lane, Lancing and branch library at The Street, East Preston. Estimated cost £47,520 and £6,800 respectively.

Whitechurch, Salom.—Birmingham Regional Hospital Board recommended to approve in principle, schemes for alterations to balconies and re-organisation of kitchens at Deermoss Hospital. Estimated cost £3,000 and £11,200 respectively.

Whitefield, Lancs.—U.D.C. have approved sketch plan for public library on the Pinfold Lane site.

Whitefield, Lancs.—U.D.C. have approved plans for new synagogue and hall in Park Lane, for the Whitefield Hebrew Congregation.

Whitley Bay, Northumb.—County Architect has prepared plans for the first stage of new infants' school at Seaton Sluice.

Wigan.—Corporation Planning Committee have approved plans for 39 more garages in various parts of the town, and alterations at Oxley's Departmental Store, Ltd., Station Road.

Ministry have approved the erection of a combined bus shelter and public convenience in Montrose Avenue, for B.C.

Witton, Cumb.—Jennings Bros., Cockermouth, are to carry out alterations to the White Swan, Lion and Lamb and the Sun Inn public-houses. The architects are Graham Roy and Nicholson, 52 Main Street, Cockermouth.

Willesden, Middx.—B.C. recommended to approve schemes for extensions to Gibbons Road School and improvements to Dollis Hill Avenue School. Estimated cost £10,000 and £10,420 respectively.

Windsor, Berks.—B.C. recommended to approve detailed plans for the siting, design and drainage of the new pavilion in the Home Park, Windsor, for the Windsor and Eton Cricket Club and Windsor Rugby Football Club.

Ministry have approved in principle, plans for an open-air War Memorial swimming pool, for R.D.C. Tenders are to be invited in August. Estimated cost £111,500.

Worcester.—Birmingham Regional Hospital Board recommended to approve in principle, scheme for the provision of bathrooms to staff houses 1, 2, 7 and 8 at Powick Hospital. Estimated cost £2,930.

Worthing, Sussex.—B.C. recommended to approve preliminary sketch plans for a new high school for boys; to submit to C.C. for approval, plans for a commerce room and two hatted classrooms at Davison C.E. School and an engineering shop and art and crafts room at

West Tarring Secondary School. Estimated cost £5,850 and £17,900 respectively.

B.C. recommended to approve an outline application, subject to conditions, for the erection of a block of 10 shops with offices over between 30 and 56 Broadwater Street West (A.24), for Brighton, Worthing and District Property and Investment Corporation, Ltd., L. H. Fewster and Gamble, architects, 5 Liverpool Gardens; approve in principle, subject to conditions, sketch plans for the erection of office buildings at The Causeway, for Lloyds Bank, Ltd., D. O. Feast, architect, 32 Mayford Road, Wandsworth Common, London, S.W.12.

Wokingham, Berks.—R.D.C. have granted outline planning permission for the erection of a warehouse and offices off the London Road at Earley, for Sutton and Sons, Market Place, Reading.

Woolwich.—B.C. recommended to authorise Borough Engineer to proceed with modernisation of the women's warm baths section at Woolwich Baths and modernisation and renovation of external elevation of the Baths. Estimated costs £2,350 and £6,830.

Worthing, Sussex.—Ministry have approved the next stage of the Worthing College of Further Education on the site of the boys' high school, during 1961/62, for C.C.

ELECTRICAL

Brentford and Chiswick, Middx.—B.C. recommended to approve scheme for installation of traffic signals at junction of Bath Road, Turnham Green Terrace and South Parade. Estimated cost £4,650.

Bury, Lancs.—Manchester Regional Hospital Board Building and Works Committee have approved, in principle, preparation of working drawings and bills of quantities for improvements to mains services and calorifier plant, and provision of a transformer room, switchgear, etc., at Fairfield General Hospital.

West Bromwich, Staffs.—Birmingham Regional Hospital Board recommended to approve, in principle, scheme for the provision of a lift and covered way at first-floor level, together with the installation of a bulk water storage tank at West Bromwich and District Hospital. Estimated cost £8,685.

FENCING

Romford, Essex.—B.C. recommended to invite tenders for the provision of fencing works at Bedfords Park, Crowlands Open Space, Cottons Recreation Ground and Gidea Park Sports Ground.

GAS AND WATER SUPPLY

Berkshire.—Thames Valley Water Board have approved the laying of three new 6in. link mains from South Moreton to Wallingford Borough boundary, Appleford to Sutton Courtenav, and Chilton to Hasbourne Reservoir. Estimated cost £10,680, £7,480 and £4,470 respectively.

Bridlington, Yorks.—B.C. recommended to approve the laying of a 4in. water main in South Back Lane.

Eastry, Kent.—Thanet Water Board have applied to the Ministry for a licence to construct wells, etc., adjacent to the pumping station at Beacon Lane, Woodnesborough, and to extend the existing boreholes and wells at the pumping station, to extract a maximum of 3,000,000 gallons of water a day.

Essex.—Southend Waterworks Co. are preparing plans for the erection of three service reservoirs, one of six million gallons capacity in Basildon and two of one million gallons capacity each at South Benfleet and Laindon. In association with these works, three re-pumping stations will also be built to deliver water to high level reservoirs and towers. Estimated cost £500,000.

Limavady, Londonderry.—Ministry have approved a regional water scheme based on an intake on the River Roe above Dungiven, for R.D.C.

Nelson, Lancs.—B.C. recommended to apply for sanction to borrow £1,500 for laying water mains to replace existing joint service pipes during the year 1960-61.

Witton, Cumb.—R.D.C. to apply to Ministry for approval for first stage of part four of a £238,000 water scheme. Proposed works include a storage reservoir and an increase in supplies to Bromfield, Waverton Dundraw, Holme Abbey, Holme Low, Holme East Waver and Silboth.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Essex.—Essex River Board have approved schemes for improving the sea walls at Reeves Hall, East Mersea and Rolls Farm, Tollesbury. Estimated cost £48,500 and £11,300 respectively.

Lowestoft, Suffolk.—B.C. recommended to submit to Ministry for approval and grant aid, scheme for the continuation of the concrete

apron backing to the Hamilton Sea Wall, from Ness Point to the coastguard station.

HEATING AND VENTILATING

Bury, Lancs.—Manchester Regional Hospital Board Building and Works Committee have approved, in principle, preparation of working drawings and bills of quantities for installation of new boiler plant at Fairfield General Hospital.

Edmonton, Middx.—B.C. recommended to approve scheme for the installation of main Triton water heaters in 164 houses at Thornaby Gardens estate. Estimated cost £8,494.

HOUSING SCHEMES

Bacup, Lancs.—Housing Committee have approved further housing development and plans are being prepared for the construction of a further 150 houses on Tunstead and other estates.

Bathavon, Som.—R.D.C. recommended to approve in principle plans for the erection of 79 houses and a motel at Manor estate, Bathampton.

Berwick, Northumb.—Borough Surveyor has prepared amended plan for erection of flats at Woolmarket.

Beverley, Yorks.—B.C. to instruct architects to prepare a scheme for erection of 46 houses on the Swinemoor estate.

Bicester, Oxon.—U.D.C. to submit to planning authority for approval, layout plans for the erection of 74 houses, for the War Department.

Billingham-on-Tees, Dur.—L. Brown and Son, Boathouse Lane, Stockton-on-Tees, are to erect houses at Marsh House Avenue.

Blaydon, Dur.—U.D.C. planning the erection of 55 houses at Chopwell.

Brentford and Chiswick, Middx.—B.C. recommended to approve revised scheme for 99 dwellings west of Somerset Road, appoint Sidney Clough, Son and Partners, 39 Devonshire Street, London, W.1, as architects for development of site, 381/387 Chiswick High Road; conversion of 28, 30, 32, 38, 39 and 45 Brackley Road into 12 flats. Estimated cost £13,215.

Bridlington, Yorks.—B.C. recommended to negotiate for the sale of 34 acres of land at Brookland Road, for erection of houses.

Cookham, Berks.—R.D.C. to invite tenders for the erection of 42 council houses during this year.

Darlington, Dur.—Bussey and Armstrong, Brinkburn Road, to erect 34 houses in Barrett Road and Carroll Road.

B.C. have approved sketch plans for nine houses at Mowden Terrace, houses at Glebe Farm, layout plans for houses at Yarm Road, and disabled persons' houses at Major Street.

Ealing, Middx.—B.C. are preparing drawings for schemes for 24 three-bedroom houses at Ravenor Park, six one-bedroom flats at Windsor Road and six three-bedroom houses at Vine Cottages; recommended to approve scheme for 28 flats at Northolt Park.

Eastry, Kent.—R.D.C. have granted planning permission subject to conditions, for the erection of 38 housing units at Boystown Place, Sandwich Hill, for King and Sons (Birmingham), Ltd., 245 Canterbury Road, Birmingham.

Gateshead, Dur.—W. H. Oliver, Ltd., 25 Simpson Street, Newcastle upon Tyne are to erect 12 flats and three lock-up garages at West Park Road and Maple Grove.

B.C. to erect houses on 12 acres of land at Whitehouse Lane.

Glasgow.—Boswell, Mitchell and Johnston, architects, 256 West George Street, Glasgow, C.2, to prepare sketch plans for the residential development of the Woodside area, for City Council. The area covers 105 acres including 64,000 houses of which 4,900 will be demolished.

City Council propose to erect multi-storey flats on the 54 acre site of Maryhill Barracks.

Godalming, Surrey.—B.C. recommended to approve amended scheme for erection of 92 dwellings at Green Lane, Farncombe.

Hebburn, Dur.—U.D.C. Surveyor to prepare plans for terrace houses in the Quay 1 and 2 redevelopment areas.

J. M. Black, Ltd., Glen Street, propose houses at Blue House Farm, Victoria Road West.

Heckmondwike, Yorks.—U.D.C. to ask Gregory Housing, Ltd., to prepare and submit an amended layout at Dale Lane for a reduced number of houses.

High Wycombe, Bucks.—B.C. recommended to approve in principle the erection of a further 30 houses at the northern end of the Hicks Farm estate.

Heston and Isleworth, Middx.—Ministry have approved, subject to conditions, the development of land at Heston Farm by the erection of flats and houses, for R. Seifert and Partners, architects, 28 Great Ormond Street, London, W.C.1, on behalf of B.H.R. (Developments), Ltd.

Honiton, Devon.—Unity Structures, Ltd., 35 Tavistock Square, London, W.C.1, are to prepare layout plans, designs, etc., for the erection of an estate, for B.C.

Ilford, Essex.—B.C. recommended to prepare scheme for the conversion of 59 Eastwood Road into four flats and one maisonnette; appoint W. W. Green and Partner, 396 Seven Sisters Road, London, N.4, as quantity surveyors for the redevelopment of compulsory purchase order sites at Inglehurst Gardens and Green Lane.

Lambeth.—B.C. recommended to appoint Davis, Belfield and Everest, 9 Ashley Place, London, S.W.1, as the quantity surveyors for the Rosendale Road extension scheme, site 8.

Leeds.—George Wimpey and Co., Ltd., have purchased a 17½ acre site at Barwick-in-Elmet, for new housing estate.

Melton and Belvoir, Leics.—R.D.C. to erect 12 houses each at Bottesford and Scalford, eight each at Hose and Long Clawton, six at Kington and four at Frisby.

Mitcham, Surrey.—B.C. recommended to appoint Colcutt and Hamp, 86 Prince Albert Road, London, N.W.8, as architects, E. C. Harris and Partners, Lynton House, Tavistock Square, London, W.C.1, as quantity surveyors, J. Liversedge and Associates, 42 Portland Place, London, W.1, as consulting engineers, and H. A. Sandford, 2 Gate Street, W.C.2, as consulting electrical engineer, for the erection of 32 cottage flats in two-storey construction on sites at Cranmer Farm and Barn Cottage, Cranmer Road.

Newbiggin, Northumb.—U.D.C. have approved proposed draft layout of a three-storey block of 11 flats on Spital estate.

Newburn, Northumb.—U.D.C. to erect old people's houses at rear of Runnymede Hotel.

Newbury, Berks.—R.D.C. to negotiate a tender with Drury Construction (Southern), Ltd., 4 Farncombe Road, Worthing, Sussex, for the erection of 10 three-bedroom houses and 11 bungalows (six one-bedroom and five two-bedroom) at Bardown, Chieveley.

Newcastle upon Tyne.—G. H. Gray and Partners, 8 Portland Terrace, are the architects for 24 old people's houses at the junction of Clearemont Road and Hunters Road.

Nuneaton, War.—B.C. recommended to prepare schemes for the construction of flats at Blacktree Road and Vernons Lane; invite tenders for erection of two old persons' bungalows at the Poplars and six old persons' flats at Cedar Road.

Ottery St. Mary, Devon.—Ministry have approved U.D.C.'s plans for the erection of 33 houses this year.

Radcliffe, Lancs.—Ministry have approved B.C.'s plans to build 100 houses in the current financial year.

Salford, Lancs.—City Council have approved the erection of 36 flats and 39 garages at Bury New Road, for L. Kay and Co. (Builders), Ltd., 8 Harris Street, Manchester, 8, subject to conditions.

Eric Levy, 32 Deansgate, Manchester, 3, is the architect for erection of 24 flatlets in Tetlow Lane, Higher Broughton, for the Jewish Board of Guardians.

Southall, Middx.—B.C. recommended to approve scheme and prepare working drawings for the demolition of Half-Way House, 20 Osterley Park Road, and development of the site by erection of eight dwellings and six garages.

Southampton.—B.C. recommended to approve preliminary sketch layout for Bevois Street redevelopment.

Sutton and Cheam, Surrey.—B.C. preparing working drawings for five houses, five bungalows and 10 flats at rear of Pond Hill Parade and 25/43 (odd) Malden Road, Cheam; recommended to approve sketch plans for 16 flats and eight flatlets at West Street, Sutton; have received outline planning permission for layout of eight flats and eight bungalows at rear of The Rectory, Cheam.

B.C. recommended to approve outline application for demolition of three houses and erection of three-storey block of 24 flats and 24 garages at 38, 40 and 42 Thicket Road, Sutton, for New Ideal Homesteads, Ltd., Mead House, South Street, Epsom; plans for demolition of two houses and erection of five two-storey blocks comprising 22 flats and 22 garages at 28 Brunswick Road and 56 Oakhill Road, Sutton, for Brown and Richardson, Ltd., 7 Benhill Avenue, Sutton; demolition of two houses and erection of a two- and three-storey block of nine maisonnettes, 16 flats and 23 garages at 37 and 39 Worcester Road, Sutton, for M. J. Gleeson and Co., Ltd., London Road, Cheam.

Swaftonham, Norfolk.—R.D.C. to invite tenders shortly for the erection of four bungalows at Common Road, Ashill.

Swanscombe, Kent.—U.D.C. to apply to Ministry for permission to erect 28 two-three-bedroom dwellings, 12 one-bedroom bungalows and 20 one-bedroom flats during this year.

Thorbury, Glos.—R.D.C. to be recommended to purchase land at Gloucester Road for erection of 16 one-bedroom maisonnettes; obtain tenders for erection of four two-bedroom flats at Orchard Rise, Falfield.

Tottenham, Middx.—B.C. recommended to approve layout plans for 313 dwellings at Albert Road/Richmond Road.

Tynemouth, Northumb.—Housing Committee to erect 11 three-bedroom houses, and 12 one-bedroom flats on the Ridges estate.

Tynemouth, Northumb.—B.C. have approved in principle scheme proposed by J. M. Clark and Son, 11 Eldon Square, Newcastle upon Tyne, for the erection of houses on land west of Preston North Road; J. H. James, Ltd., Archer Street, Wallsend, are to carry out housing developments at Preston Gate.

Wantage, Berks.—R.D.C. have approved the erection of six one-bedroom bungalows and two three-bedroom houses at East Ilsley as the first part of the housing programme.

West Hartlepool, Dur.—B.C. to build flats in Hilda Street and Ramsay Street.

Whickham, Dur.—U.D.C. to erect 71 houses and a block of 16 garages in Victoria, Athol and Seymour Streets, Dunston. Layout plans by the Council's architect, Fennell and Baddeley, Bridge End Chambers, Chester-le-Street, have been approved.

Whitley Bay, Northumb.—Waring and Netts, 36 Jesmond Road, Newcastle upon Tyne, have prepared plans for 38 bungalows and 24 two-storey houses on the Monkseaton building estate, and outline plans for six-storey block of flats at Whitley Lodge.

Wigan, Lancs.—B.C. have submitted to the Ministry scheme for erection of 170 houses and 124 garage spaces on the Giants Hall playing field at Gidlow, for approval.

Willesden, Middx.—B.C. preparing working drawings for 38 dwellings in four-storey blocks at Willesden Lane and bills of quantities for 16 dwellings at South Kilburn; recommended to appoint Emberton, Franck and Tardrew, 17 Chantry House, Eccleston Street, London, S.W.1, as architects for the redevelopment of the A. B. Cinema site, South Kilburn.

Windsor, Berks.—B.C. have approved the demolition of a number of temporary bungalows in the Wolf Lane-Foster Avenue area and are to seek outline planning approval for the erection of three-storey, six-storey or four-storey buildings with flats on the lower floors and maisonnettes above, on the site.

Wisbech, I. of E.—Borough Engineer to prepare scheme for the erection of eight pairs of houses fronting Lerowe Road.

Worthing, Sussex.—B.C. recommended to approve, subject to conditions, plans for the erection of 52 detached bungalows and garages at west side of Forest Road, for New Ideal Homesteads, Ltd., Mead House, South Street, Epsom, Surrey.

PLAYING FIELDS, PARKS, ETC.

Brentford and Chiswick, Middx.—B.C. recommended to approve revised layout of proposed open space at Syon estate providing for play area, sunken garden, putting green, three tennis courts and a pavilion.

Chester.—Ministry have approved the provision of a playing field, including a children's playground at Blacon Point Road, for City Council. Estimated cost £3,850.

Romford, Essex.—B.C. recommended to apply for sanction to borrow £40,000 for the development of Lodge Farm Recreation Ground.

Sheffield.—City Council to spend £3,215 on children's playground at Lydgate Lane.

Westmorland.—Lake District Planning Board have approved spending of £1,000 for improving the Silcroft camping site.

RAILWAY ENGINEERING

Hebburn, Dur.—C.C. have approved scheme for improving the Mill Lane level crossing. Estimated cost £30,000.

RIVER AND FLOOD PREVENTION WORKS

Sussex.—West Sussex River Board have approved scheme for improvements to the east branch of the Adur River. Estimated cost £2,000.

ROADS, BRIDGES AND SITE WORKS

Barnsley, Yorks.—B.C. recommended to apply for the M.T. for approval for grant purposes, for widening Church Street, from Eastgate to Victoria Road.

Belfast.—Harbour Commissioners have approved in principle a scheme for an additional bridge over the Lagan, North of Queen's Bridge.

Brentford and Chiswick, Middx.—B.C. recommended to approve highway improvement scheme at junction of Bath Road, Turnham Green Terrace and South Parade. Estimated cost £15,000.

Burnley, Lancs.—B.C. propose provision of a new exit road from the Burnley central area, via Bridge Street and Mosley Street, to link up with the proposed inner ring road in Bank house Street vicinity.

Bury, Lancs.—B.C. propose widening of Manchester Road at junction with Sunny Bank Road. Estimated cost £5,000.

Carlisle, Cumb.—City Engineer has prepared plans for the reconstruction of Blackwell Road.

Colne Valley, Yorks.—U.D.C. to repair Council house footpaths during 1960-61. Estimated cost £1,000.

Doncaster, Yorks.—R.D.C. to apply for sanction to borrow £18,810 for site development works on the Holly Bush Lane estate.

Gosforth, Northumb.—U.D.C. Surveyor has prepared schemes for repairing Ashburton Road and Elmfield Park. Estimated cost £20,000.

Guildford, Surrey.—B.C. recommended to prepare plans for the provision of a car parking area on part of open space by Four Acres and Bushy Hill Drive.

Ilkeston, Derby.—B.C. have submitted to M.T., for approval, revised scheme for the improvement of Ladywood Road, section 3. Estimated cost £13,520.

Lanarkshire.—C.C. propose to widen the railway bridge and provide a footpath at Station Road, Shotts. Estimated cost £18,000.

Lancashire.—M.T. have made a grant of £117,688 towards the estimated cost of £156,890 for widening and re-aligning the A.683 (Lancaster-Kirkby Lonsdale Road), between the city and the new by-pass widening the Bulk Canal Bridge at the Aqueduct, for C.C. Road works to be carried out by Direct Labour.

Lancaster.—City Council planning the construction of a new road, between the Ridge estate and Derwent Road.

Mitcham, Surrey.—B.C. recommended to approve amended scheme for construction of a roundabout at junction of Grove Road and Tamworth Lane.

Sutton and Cheam, Surrey.—B.C. recommended to approve plans for private street works at Glenthorne Close (section 1).

Todmorden, Yorks.—B.C. to submit to the C.C. for consideration, scheme to be prepared by the Borough Surveyor for improvement of the Golden Lion Bridge at Rochdale Road.

Walthamstow, Essex.—B.C. recommended to appoint Scott and Wilson, Kirkpatrick and Partners, 47 Victoria Street, London, S.W.1, as consulting engineers in connection with scheme for the extraction of gravel from Walthamstow Marshes.

Whitehead, Antrim.—U.D.C. propose to construct a car park over part of the rocky foreshore. Estimated cost £30,000.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Blaydon, Dur.—U.D.C. to purchase land at Blaydon Haughs for sewage disposal works to serve Blaydon and Winlaton.

Colne Valley, Yorks.—Ministry have approved in principle proposal to construct a new branch sewer at West Slaithwaite, for U.D.C.

Eastry, Kent.—Ministry have authorised R.D.C. to obtain tenders for sewerage schemes for Woodnesborough, Ash, Sholden and Worth.

Newbury, Berks.—R.D.C. to invite tenders for enlarging the sewage disposal plant to serve the new development at Bardown, Chieveley.

Romford, Essex.—B.C. recommended to apply for sanction to borrow £2,480 for the sewerage of Lower Bedfords Road.

Roxburghshire.—Crouch and Hogg, 18 Woodside Crescent, Glasgow, are the engineers, for the second phase of a new Denholm drainage scheme. Estimated cost £15,200.

Whishton, Lancs.—R.D.C. to apply to Ministry for permission to borrow half the cost of a new scheme to culvert the brook between Scotch Barn Lane and Cross Lane. Total cost of scheme £14,969.

Winslow, Bucks.—B.C. to prepare documents and invite tenders in due course for a sewerage and sewage disposal scheme for Swanbourne and Mursley; have submitted to Ministry for preliminary approval a sewerage scheme for Stewkley. Estimated cost £5,000.

Worthing, Sussex.—R.D.C. considering scheme for an extension to the sewer to serve Sompington Abbotts School and other properties in the neighbourhood. Estimated cost £2,750.

STREET LIGHTING

Bacup, Lancs.—Street Lighting Committee to spend £2,000 on improved lighting in Booth Road and Todmorden Road.

Basinstoke, Hants.—B.C. recommended to approve schemes for the installation of half-standard lighting in Southern Road and Victoria Street and group A lighting in Kingsclere Road from Houndmills road to the F. C. Clarke housing estate. Estimated cost £930 and £2,045 respectively.

Bedlington, Northumb.—U.D.C. to apply for sanction to borrow £22,705 for street lighting at Netherton Lane, Bomarsund Road and approaches to Kitty Brewster Bridge.

Billinge and Winstanley, Lancs.—U.D.C. have approved the installation of Class 1 street lighting from the Orrell to the St. Helens boundaries respectively, a distance of nearly four miles and, in addition, to re-site the present columns from that road to new estates and district roads. Estimated cost £10,000.

Colwyn Bay, Denbighs.—B.C. to prepare plans for the provision of suitable lighting on the trunk road between Penmaenhead and the borough boundary; proceed with scheme for the conversion of street lighting in the central area of the town from gas to electricity. Estimated cost £31,600.

Ilkeston, Derbys.—B.C. recommended to apply for sanction to borrow £11,750 for the conversion of existing tungsten lighting to Group B sodium lighting, at Corporation Road, Thurman Street, Hallam Fields Road and Park Road.

Mansfield, Notts.—B.C. recommended to approve the conversion of existing gas lighting to electricity. Group B standard at Linden Street, Beresford Street and Mill Street, on the Radmanthwaite estate.

Meltham, Yorks.—U.D.C. to provide 110 additional lamps during the coming year, for street lighting conversion. Estimated cost £3,500.

Southampton.—B.C. recommended to apply for sanction to borrow £13,498 for improved street lighting in Belvoir Valley—St. Mary's Road, St. Mary Street—Terminus Terrace and Millbrook Road—Shirley Road—Paynes Road.

Wanstead and Woodford, Essex.—B.C. recommended to apply for sanction to borrow £4,560 for the installation of improved street lighting in Snakes Lane.

CONTRACTS

Full details of the Contracts marked * will be found in our Advertisement Columns BUILDING AND DECORATING (See also Housing Schemes)

Aberdeen.—Following works involved in the erection of the Summerfield Residential Home, for City Council: Excavator, mason, brick, concrete and structural steel; carpenter, joiner and ironmonger; roof tiler and roughcast; plumber; lath and plaster; patent flooring; electrical; glazier, heating. Applications in writing to the City Architect, 11 Broad Street, Aberdeen, by May 12.

Abingdon, Berks.—Works of improvement and extension to the existing single-storey depot building and compound in Wootton Road, for B.C. Applications to West and Pritchard, architects, Bridge Street, Abingdon, by May 9.

Armagh.—Following works to schools, for C.C.: Cortamlet C.P.S.—general repairs; Armagh Girls' High School—external painting; Kinneigo C.P.S.—external painting; Cladymore C.P.S.—electrical installation; Crossroads C.P.S.—general repairs; Cormeen C.P.S.—internal and external painting; Carnagh C.P.S.—internal and external painting; Madden C.P.S.—internal and external painting; Poyntzpass C.P.S.—drainage work; Battlehill C.P.S.—stripping and reslating roof, etc.; Grange O'Neilland C.P.S.—floor replacement; Cassels C.P.S.—floor replacement; Tullyroan C.P.S.—external painting; Bessbrook Technical School—part internal painting. Documents from the Architect, 9 Beresford Row, Armagh. Tenders by May 9.

Ashbourne, Derbys.—Exterior painting of the following houses, for R.D.C.: Ballidon, four; Biggin-by-Hartington, 17; Brassington (1927 houses), six; Clifton bungalows, four; Mercaston, four; Newhaven, four; Pikehall, eight; Roston, four; Wyaston Road flats, seven; Wyaston (1927 houses), six. Documents from the Surveyor, Compton Offices, Ashbourne. Tenders by May 17.

Barrow-upon-Soar, Leics.—Erection of 11 brick and asbestos garages at Bird Hill Road, Woodhouse Eaves, for R.D.C. Documents from the office of the Engineer and Surveyor, 31 Fowke Street, Rothley. Tenders by May 30.

Basingstoke, Hants.—External repainting of following dwellings, for R.D.C.: Dummer Road, Axford, two; Kenward's, Axford, six; Lane End, Bramley, 24; Moat Close, Bramley, 39; North Row, Bramley, 12; Bible Field, Dummer, 10; Chapel Close, Dummer, eight; Beach's Crescent, Little London, six; Sweetzer's Piece, Mortimer West End, two; The Bridges, Mortimer West End, eight; Fox Lane, Newfound, two; St. John's Piece, East Oakley, 42; Pack Lane, Oakley, four; Burney Bit, Pamber Heath, eight; Beal's Pigstie, Ramsdell, 12; Charter Alley, Ramsdell, two; Spring Close, Sherborne St. John, 42; Goddard's Close, Sheffield - on - Loddon, 20; Hydes Platt,

Silchester, 18; St. Stephen's Close, Up Nately, six; Little Hoddington, Upton Grey, 28. Firms desirous of submitting tenders should make application, indicating the site or sites in which they are interested, to A. S. Rew, clerk of the Council, Eastlands, London Road, Basingstoke, by May 9.

Bath.—Conversion of the ground and second floors into self-contained flats at 37 Paragon, for City Council. Documents from the Surveyor of Corporate Property, Guildhall, Bath. Deposit £2 2s. Tenders by May 18.

Belfast.—Installation of a hot water system in 96 houses in the Roseberry Road area, for City Council. Documents from the Housing Architect's Department, 97 Townsend Street, Belfast, 13. Deposit £3, cheque payable to Corporation. Tenders by May 17.

Belfast.—Supplying and fitting of urinal backings in five toilets at Wheatfield Junior Primary School, Glenbryn Gardens, for City Council. Documents from Education Architect's Department, 40 Academy Street, Belfast, 1. Tenders by May 19.

Bingley, Yorks.—External painting on the following contracts, for U.D.C.: (1) Fifty-six houses, Manor Road, Bradford Old Road and School Street. Cottingley; (2) 31 houses, South Road, Cullingworth; (3) 42 houses, Cuckoo Nest Estate, Harden. Documents from J. S. Lattin, surveyor and architect, Town Hall, Bingley. Tenders by May 9.

Birmingham.—External painting and building repairs at Field House Residential Nursery, Thicknall Lane, Clent, Worcs., for City Council. Applications to A. G. Sheppard Fidler, city architect, Civic Centre, Birmingham, 1, by May 9. Deposit £2 2s. Tenders by June 2.

Blackwater, Armagh.—External maintenance and improvements to the Primary Schools, for Rev. T. Soraghan. Documents from the offices of the Architect, 143 Royal Avenue, Belfast. Deposit £5 5s. (cheque). Tenders by May 16.

Blyth, Suffolk.—External painting of 189 properties in the following parishes, for R.D.C.: Aldringham, Badingham, Blythburgh, Earl Soham, Farnham, Great Glenham, Hacheston, Kelsale, Knodishall, Parham, Peasenhall, Sibton, Stratford St. Andrew, Walberswick, Walpole, Wenhamston, Yoxford. Documents from the Housing Manager, Council Offices, Rendham Road, Saxmundham. Tenders by May 11.

Bournemouth, Hants.—Erection of a new boiler house at East Howe Infants' School, for B.C. Documents from the Borough Architect's Office (Room 106), Town Hall, Bournemouth. Deposit £1 1s. Tenders by May 30.

Breconshire.—Internal redecoration and external painting of community house, Brynmawr, for C.C. Applications to the County Architect, Rhyl Offices, Brecon, by May 12.

Bury, Lancs.—Internal decoration during the summer vacation of several schools, for B.C. Documents from the Borough Engineer, Town Hall, Bury. Tenders by May 15.

***Caernarvonshire.**—Erection of residential school for physically handicapped children at Llandudno, for Co. E.C. Apply by May 13. Deposit £2 2s.

Carshalton, Surrey.—Erection of a public convenience of simple construction 10ft. 6in. by 20ft. 6in. in Roydon Park, for U.D.C. Applications to C. H. Durrant, clerk of the council, Council Offices, The Grove, Carshalton, by May 12.

Chadderton, Lancs.—Internal painting and decorating of the assembly room, etc., at the Town Hall, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Chadderton. Tenders by May 13.

Cheshunt, Herts.—Erection of three-storey building consisting of eight shops (shell only), 10 maisonnettes and 27 garages, at College Road and Turners Hill, for U.D.C. Applications giving details of similar work recently executed, and the name and addresses of architects, etc., to whom reference may be made to G. S. Newham, clerk of the council, Manor House, Turners Hill, Waltham Cross, by May 7.

Chester-le-Street, Dur.—Erection of a new concert hall at Picktree Lane, for Greenbank Club and Institute, Ltd. Applications to the Club Secretary by May 14.

Colne Valley, Yorks.—Removal of the existing ranges and the supplying and fixing of 38 tiled fireplaces in Council properties, for U.D.C. Documents from the Engineer and Surveyor, Municipal Offices, Carr Lane, Slaithwaite. Tenders by May 14.

Cornwall.—Sub-contracts for the following at Perranporth County Primary School, for C.C.: (a) Structural steelwork; (b) metal windows and doors; (c) electrical services. Applications to the County Architect, County Hall, Truro, by May 14.

Crompton, Lancs.—External painting of 175 Council houses, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Shaw. Tenders by May 13.

Croydon, Surrey.—Minor building alterations at the Woodside School, Morland Road,

for B.C. Applications to the Chief Education Officer, Katharine Street, Croydon. Deposit £1. Tenders by May 31.

Dagenham, Essex.—Following, for 190 dwellings at Canvey Island, contract 4, for B.C.: (a) Supply and laying 10,696 super. yd. (approx.) thermoplastic floor tiles; (b) sanitary fittings, etc.; (c) tiled fireplace surrounds. Documents from the Borough Engineer and Surveyor, Civic Centre, Dagenham. Tenders by May 21.

Darlaston, Staffs.—Exterior decoration of houses as follows, for U.D.C.: Contract 1, 235; 2, 183; 3, 201. Documents from the Engineer and Surveyor, Victoria Park, Darlaston. Tenders by May 10.

Daventry, Northants.—Exterior painting of the following houses, for R.D.C.: (a) Twenty-six—King Style Close, Crick; (b) 16—1-16 Bucknills Lane, Crick; (c) 12—17-28 Bucknills Lane, Crick. Documents from the Surveyor, Council Offices, Church Walk, Daventry. Tenders by May 16.

Devon.—Erection of kitchen and stores, assembly hall, fuel store and improvements to offices at Halwill County Primary School, for C.C. Documents from County Architects, 97 Heavitree Road, Exeter. R. N. Guy, county architect. Deposit £2 2s., cheque payable to C.C.

Doncaster, Yorks.—Alterations and additions to public conveniences, Gainsborough Road, Bawtry, contract 336, for R.D.C. Documents from J. A. Williams, surveyor, Nether Hall, Doncaster. Tenders by May 20.

Dublin, Eire.—Erection of an automatic telephone exchange at Malahide, Co. Dublin, for the Office of Public Works. Documents from the Secretary, Office of Public Works, 51 St. Stephen's Green, Dublin. Deposit £1. Tenders by May 13.

Eastbourne, Sussex.—Erection of a new laboratory block, at training college, two storeys in height and of brick construction with reinforced concrete floor and roof slabs, for B.C. Applications to the Borough Surveyor, 2-4 Saffrons Road, Eastbourne, by May 9. Deposit £2 2s., cheque payable to Corporation. Tenders by June 9.

East Riding.—Repairs to Raddocks Bridge, Green Lane, South Cave, in brickwork and concrete, for C.C. Documents from the County Surveyor, County Hall, Beverley. Deposit £2. Tenders by May 16.

Edinburgh.—Construction of mass concrete retaining wall with random rubble facing and carriageway and footpath works at Woodhall Road, for City Council. Documents from City Engineer, 329 High Street, Edinburgh. Tenders by May 19.

Epsom and Ewell, Surrey.—Construction of brick or flint boundary walling at the junction of Wilmerhatch Lane and Headley Road, Epsom, for B.C. Documents from the office of Colin Cobbett, borough engineer and surveyor, Town Hall, Epsom. Deposit £2 2s. Tenders by May 16.

Exeter.—Erection of 13 garages (traditional construction) at Fouracre Close, Beacon Lane, for City Council. Applications to City Architect, Municipal Offices, Exeter, by May 7. Deposit £1 1s.

Fifeshire.—Erection of new police divisional headquarters at Cupar (approx. 16,000 sq. ft.), for Police Joint Committee. Applications to the Clerk, Fife Police Joint Committee, Wemyssfield, Kirkcaldy, by May 14.

Gipping, Suffolk.—External painting of 141 council houses as follows, for R.D.C.: Claydon, 20; Creeting St. Mary, eight; Debenham, nine; Haughley, 70; Hemingtons, two; Old Newton, 12; Pettaugh, 14; Willisham, six. Documents from the Engineer and Surveyor, Council Offices, Needham Market, near Ipswich. Tenders by May 10.

Glasgow.—Replacement of broken glass in schools, etc., for one year from June 1, 1960, for City Council. Documents from the Architectural and Planning Department (2nd floor), 20 Trongate, Glasgow, C.I. Tenders by May 19.

Great Yarmouth.—Erection of the following, for B.C.: (a) Public conveniences at Deneside, Great Yarmouth; (b) 25 aged persons' bungalows at Caister Road, Great Yarmouth. Documents from the Borough Engineer's Office, Town Hall, Great Yarmouth. Deposit £2 2s. each. Tenders by May 27.

Havant and Waterloo, Hants.—Supply (including or excluding erection and glazing) of three enclosed-type bus passenger shelters, size approx. 15ft. x 5ft., for U.D.C. Quotations, with full details of size and construction, together with delivery period, to be delivered to the Engineer and Surveyor, 1 Park Road North, Havant, by noon, May 16.

Holland.—Extension of the office accommodation at Pote Hole, Spalding (Civil Defence Department), for C.C. Documents from the County Architect, County Hall, Boston, Lincs. Tenders by May 16.

Inverness.—Covering the outer walls of No. 6 Hangar, Longman Road, with metal lath and thereafter cement plastering and rough-

casting, also for painting external wood and iron work and internal structural steel, for B.C. Documents from The Burgh Architect, 11 High Street, Inverness. Tenders by May 11.

Inverness.—Painting of Greig Street Bridge, for B.C. Documents from the Burgh Surveyor, Town House, Inverness. Tenders by May 14.

Kingston-upon-Thames, Surrey.—Erection of a steel-framed two-storey sports pavilion, of 3,300 sq. ft., at Norbiton sports ground, for B.C. Applications to A. B. Rogers, town clerk, Guildhall, Kingston-upon-Thames, by May 9. Deposit £2 2s.

Ledbury, Here.—External painting and repairs to 43 dwellings and seven garages at Brookside, Colwall, for R.D.C. Documents from E. E. Jordan, surveyor, The Southend, Ledbury. Tenders by May 16.

Lindsey.—Erection of the first instalment of a primary school at the R.A.F. Camp, Scampton, containing approx. 4,600 super. ft. floor space, for C.C. Documents from A. Ronald Clark, county architect, County Offices, Lincoln. Tenders by May 24.

Liverpool.—Erection and completion of two new brick garages, one at Breeze Hill Yard and one at Windsor Yard, Beaumont Street, for City Council. Documents from the Water Engineer, 55 Dale Street, Liverpool, 2. Tenders by June 3.

Liskeard, Corn.—Following works, for R.D.C.: (a) Improvements to Council houses—Pelynt, 1 and 2 Muchlarnick—provision of septic tank drainage, w.c.s, Rayburn cookers, h. and c. water system, sinks, etc., and electric wiring; Polruan, 1-8 Wherry Place—provision of w.c.s, grates, h. and c. water systems, sinks, etc., and the slate-hanging of walls; St. Neot, 1-4 Tremadoc—provision of Rayburn cookers, grates, h. and c. water systems, sinks, etc., and the slate-hanging of walls; Lanteglos-by-Fowey, Pont Cottage—provision of drainage, w.c. suite, Rayburn cooker, h. and c. water system, bath, etc., electric wiring, etc.; (b) public conveniences, Fishna Bridge, Polperro—tiling of internal walls; the lining of the internal walls of the existing public conveniences with white clay tiles. Documents from the Surveyor, Council Offices, Luxstowe House, Liskeard. Tenders by May 12.

Llwchwr, Glam.—Supply and installation of 100 approved combination grates in pre-war houses, situated as follows, for U.D.C.: Pontardulais, Gorseinon, Gowerton, Penllengar and Loughor. Documents from T. Bryn Richards, architect, Council Offices, Gorseinon. Tenders by May 18.

Loftus, Yorks.—Erection of two shops and two Dormer-type houses at Easington Park estate, for U.D.C. Deposit £3 3s. Tenders by May 16.

Luton, Beds.—Developments at the Luton and Dunstable Hospital, for North-West Metropolitan Regional Hospital Board. Apply by May 30.

Luton, Beds.—Following, for B.C.: (a) Supply of ironmongery, Whipperley Ring shops and maisonnettes (tenders by May 19); (b) heating, hot and cold water services, new dining room and kitchen, Stopleys Primary Schools (tenders by May 19); (c) stainless steel sink units and drainers, new dining room and kitchen, Stopleys Primary Schools (tenders by May 19); (d) rewiring of 50 houses, Hartsfield Road, Ashcroft estate (tenders by May 20); (e) electrical work in connection with new heating installation, Dunstable Road Primary Schools, (tenders by June 1). Documents from the Borough Architect, Town Hall, Luton.

Maldon, Essex.—Following external painting, for B.C.: Contract D(1)—St. Giles Crescent, Maldon—36 dwellings; D(2)—Orchard Road, Maldon, and St. Peter's Avenue, Maldon—66 dwellings. Documents from the Borough Engineer, Market Hill, Maldon. Deposit £2 2s. Tenders by May 16.

Manchester.—Supply and erection of structural steelwork at Royle Green Infants' School, Northenden, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 10.

Manchester.—Minor alterations at Green End Primary School, Levenshulme, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 11.

Manchester.—Alterations to school meals kitchen, for City Council. Tenders by May 25.

Merton and Morden, Surrey.—Erection of Morden Assembly Hall, Tudor Drive, for U.D.C. Applications to the Engineer and Surveyor, Morden Hall, S.W.19, by May 13, giving particulars of recent contracts completed and the names of two or more technical referees.

Midhurst, Sussex.—Alterations and additions in providing public conveniences at the White Hart Inn, South Harting, for R.D.C. Documents from the Engineer and Surveyor, Council Offices, Midhurst. Deposit 10s. 6d. Tenders by May 23.

***Middlesbrough, Yorks.**—Erection of public conveniences, Albert Mews, for B.C. Deposit £2 2s. Tenders by June 2.

***Morecambe and Heysham, Lancs.**—Construction of a timber landing stage adjoining Town Hall slipway, for B.C. Deposit £2. Tenders by June 1.

Musselburgh, Midlothian.—Erection in a single undertaking of a public convenience at South Street, for B.C. Documents from the Burgh Surveyor, Municipal Offices, High Street, Musselburgh. Tenders by May 30.

New Romney, Kent.—External repainting of 27 dwellings, for B.C. Applications to Borough Surveyor, Town Hall, New Romney, by May 7.

***Newtown and Llanllwchaearn, Monts.**—New sale ring and extensions to Newtown Smithfield, for U.D.C. Tenders by May 21, extension of date.

Norfolk.—Following, for Co. E.C.: (1) Buxton County Primary School—extensions and adaptations; (2) Hellesdon Secondary Modern School—second instalment of new school (23,000 super. ft.); (3) Sprowston Secondary Modern School—second instalment of new school (50,000 super. ft.); (4) Thorpe Grammar School—extensions (39,000 super. ft.); (5) Swanton Morley Voluntary Controlled School—one classroom. Applications to F. Lincoln Ralphs, chief education officer, County Education Offices, Stracey Road, Norwich, by May 11.

Norfolk.—Stripping and retiling approx. 150 squares of roofs at the County Home, Beech House, Gressenhall, and installing a lift involving alterations to partitions and floors, for C.C. Applications to the County Architect, 27 Thorpe Road, Norwich, by May 9. Tenders by May 13.

Norwich.—Erection of a central library in Bethel Street, for City Council. The construction consists of reinforced concrete basement and frame with precast concrete cladding panels, and involves the post-tensioning of large units. Documents from City Architect's Office, City Hall, Norwich. Tenders by July 8.

Otley, Yorks.—External painting of 100 houses, in four separate contracts, on the Carr Green, Westbourne, Fairfax Street, Newall and Weston Lane estates, for U.D.C. Documents from the Engineer and Surveyor, Council Offices, North Parade, Otley. Deposit £1 1s. Tenders by May 14.

Plymouth.—Erection of a post office and savings bank at Granby Way, Devonport, for City Council. Applications to the City Architect, Seymour Road, Plymouth, by May 7. Deposit £3 3s., payable to Corporation.

Portsmouth.—Following, for City Council: (a) Remodelling of laboratory and preparation room, College of Technology; (b) various schools—repairs to roofs; (c) various schools—repairs to stonework; (d) various schools—repairs to playgrounds. Applications to the City Architect, 1 Western Parade, Portsmouth, by May 9. Deposit £1 each.

Reading, Berks.—Internal redecoration of E. P. Collier School, for B.C. Documents from the Borough Architect, Town Hall, Reading. Tenders by May 31.

Rochdale, Lancs.—(1) Provision of snowboards; (2) pointing of brickwork at various schools, for B.C. Documents from the Borough Surveyor, Town Hall, Rochdale. Tenders by May 16.

Rochdale, Lancs.—Internal painting of Brookfield Junior School, for B.C. Documents from the Borough Surveyor, Town Hall, Rochdale. Tenders by May 17.

Rochdale, Lancs.—Erection and completion of garages on various estates, for B.C. Documents from Borough Surveyor, Town Hall, Rochdale. Tenders by May 20.

Rochester, Kent.—External painting of houses on the following estates, for City Council: Rochester: St. William's estate, 50; Corporation Street pre-war flats, 36; Maidstone Road estate, 147. Stroud: Broom Hill estate (prefabricated bungalows), 100; Chapter estate, 50; Watling Street estate, 4. Documents from the Housing Manager, Guildhall, Rochester. Deposit £2 2s. Tenders by May 13.

Saxmundham, Suffolk.—Modernisation of 54 Council houses, for U.D.C., including the provision of wash-hand basins and installation of hot water supplies. Documents from R. Woodhouse Beales, architect, 3 Neale Street, Ipswich. Tenders by May 28.

Skipton, Yorks.—External painting of 217 houses, 20 one-bedroom flats, and 16 two-bedroom flats in the following parishes, for R.D.C.: Addingham; Bradley; Cowling; Embay; Gargrave; Grassington; Glusburn; Steeton - with - Eastburn; Storton; Thorby; Sutton. Documents from the Engineer and Surveyor, Granville Street, Skipton. Tenders by May 13.

Sleaford, Lincs.—External painting of houses in five groups, for U.D.C. Documents from the Housing Officer, Council Offices, Westgate House, 25 Westgate, Sleaford. Tenders by May 14.

***Somerset.**—Alterations at Ansford Secondary Modern School, for C.C. Apply by May 16. Deposit £2 2s.

Somerset.—Erection of Salford Primary School (280 cost places), for C.C. Applications to R. O. Harris, county architect, The Crescent, Taunton, by May 16. Deposit £2 2s.

Southend-on-Sea, Essex.—Construction of foundations and erection of prefabricated movable classrooms and works incidental thereto at Southchurch High School for Boys, for B.C. Applications to the Borough Architect, 30, Alexandra Street, Southend-on-Sea. Tenders by May 23.

Sunderland, Dur.—Painting all the steel superstructure of the Wearmouth Bridge, for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £1 1s. Tenders by May 18.

Sunderland, Dur.—Erection of maternity and child welfare clinic, Hylton Castle estate, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s., cheques payable to Corporation. Tenders by May 18.

Sunderland, Dur.—Erection of new garage and alterations to existing buildings, Railway Row Cleansing Depot, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Deposit £2 2s., cheque payable to Corporation. Tenders by May 19.

***Tideswell, Derbys.**—Erection of club building, for Tideswell and District Ex-servicemen's Club, Ltd. Deposit £2 2s. Tenders by May 19.

Totnes, Devon.—External painting of all, or any, of the following groups of houses, for R.D.C. (a) 1-15 Woodhay Close, South Brent; (b) 1-17 Crowder Park, South Brent; (c) 18-34 Crowder Park, South Brent; (d) 35-48 Crowder Park, South Brent; 63 and 64 Crowder Park, South Brent; 1-3 Kerries Road, South Brent; (e) 13-31 Barn Park, Stoke Gabriel; (f) 1-18 Riverdale, Harbertonford; (g) 1-12 Marl Park, Harbertonford. Documents from the Engineer and Surveyor, Council Offices, Higher Plymouth Road, Totnes. Tenders by May 19.

Twickenham, Middx.—Retiling roofs of two pairs of cottages at Hampton, for B.C. Documents from the Borough Engineer's Property Section, Room 53, Municipal Offices, Twickenham. Tenders by May 16.

Wales.—Following works, for the Mid-Wales Police Authority: (a) 54 Greenland Road, Brynmawr—external painting and repairs; (b) Ystradgynlais police station and court—internal redecoration; (c) Ystradgynlais police station, courtroom, police houses 1 and 3—external painting; (d) Brynmawr police court—internal redecoration; (e) Cefn Coed police court—part internal redecoration. Applications to T. Jestyn Williams, county architect, Rhyl Offices, Brecon, by May 16.

Wellingborough, Northants.—Erection of one block of four Batley garages, together with fencing, concrete apron, and incidental works, at Newton Road depot, for R.D.C. Documents from the Surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £2 2s. Tenders by May 23.

Wellingborough, Northants.—Erection of one block of seven Batley garages, Baker Crescent, Irchester, for R.D.C. Documents from C. L. Hanwell, surveyor, Rural Council Offices, 20 Oxford Street, Wellingborough. Deposit £2 2s. Tenders by May 27.

West Riding.—Scully improvements at Conisbrough Station Road Infants' School, for C.C. Applications to the Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by May 16. Tenders by May 30.

West Riding.—Scully improvements at Castleford Airedale Secondary School, for C.C. Applications to the Divisional Architect, Bishopgarth, Westfield Road, Wakefield, by May 16. Tenders by May 30.

West Riding.—Following works at Bretton Hall Training College, for C.C.: (1) Erection of a mainly timber structure at first floor level; (2) improvement of the existing kennel block; (3) re-roofing of the art exhibition room. Application to the County Architect, Bishopgarth, Westfield Road, Wakefield, by May 16. Tenders by May 30.

West Riding.—Following works, for C.C.: Part internal redecoration of Grantley Hall Adult College; internal and external redecoration of the West Riding Institute of Agriculture, Askham Bryan, near York. Applications to the Divisional Architect, Salisbury Buildings, Albert Street, Harrogate, by May 16. Tenders by May 30.

West Riding.—Reorganisation of two housecraft rooms at Hatfield Secondary School, for C.C. Applications to the Divisional Architect, Planet Road, Adwick-le-Street, near Doncaster, by May 16. Tenders by May 30.

West Riding.—Plastering of dormitories, corridors, etc., at the County Welfare Establishment, Stanley View, Wakefield, for C.C. Applications to the County Architect,

"Bishopgarth," Westfield Road, Wakefield, by May 13. Tenders by May 30.

West Sussex.—One classroom extension at Horsham Greenways Primary School (Job No. 6296), for C.C. Applications to the County Architect, County Hall, Chichester, by May 10.

Wigan, Lancs.—Exterior painting of 58 traditional houses situate on the Gathurst Lane housing estate in the parish of Shevington, and eight Swedish timber houses on the Beech Avenue housing estate in the parish of Parbold, for R.D.C. Documents from the surveyor, J. Holding, 10 Bridgeman Terrace, Wigan. Tenders by May 9.

Worcester.—Hillborough, provision of sanitary accommodation, for City Council. Deposit £3 3s. Tenders by May 27.

Worcester.—External redecoration of the following schools, for City Council: (Contract 1) Grammar School for Girls and caretaker's house; (2) Nunnery Wood Secondary School—F block only; (3) Ronkswood Junior School annexe (4) Pitmaston Junior School. Documents from the City Engineer and Surveyor, 22 Bridge Street, Worcester. Deposit £2 2s. (cheques payable to Corporation). Tenders by May 9.

York.—Erection of a branch library at Fifth Avenue, for City Council. Documents from E. Firth, city architect, 8 St. Leonard's Place, York. Deposit £3 (cheques payable to Corporation). Tenders by May 11.

CLOTHING AND TEXTILES

Barrow-in-Furness, Lancs.—Supply of police uniform clothing during the period ending March 31, 1961, for B.C. Documents from the Chief Constable, Central Police Headquarters, Barrow-in-Furness. Tenders by May 28.

Bournemouth, Hants.—Supply of uniform clothing (less waterproofs and caps), for B.C. Documents from the Superintendent of Parks, Avenue Road, Bournemouth. Tenders by May 12.

Bury, Lancs.—Supply, during 1960-61, of uniform clothing for members of the fire brigade, for B.C.: Fire tunics, caps, officers' uniform jackets and trousers, shirts and collars, patrol jackets and trousers, overall jackets, raincoats. Documents from Chief Fire Officer, Fire Station, Bury. Tenders by May 21.

Newport, Mon.—Uniform, footwear, pull-overs, socks and caps, for B.C. Particulars from the Chief Fire Officer, Central Fire Station, Dock Street, Newport, Mon. Tenders by May 11.

***Norwich.**—Supply of uniforms and overalls, for City Council.

***Nottinghamshire.**—Supply of ambulance service clothing, for C.C. Tenders by May 20.

Salford, Lancs.—Supply of the following, for City Council: Greatcoats, jackets, trousers, skirts, caps, helmets, shirts, and collars, ties, leather gloves, and nylon stockings for the police force; and caps, waterproof coats, while cotton dust coats, and rubber boots for the school crossing patrol. Documents from the Chief Constable, P.O. Box 5, Salford, 5. Tenders by May 12.

Stockport, Ches.—Supply of school crossing patrol clothing as follows, for B.C.: 35 s.b. white waterproof coats in three stock sizes; 35 pairs navy blue waterproof leggings; 50 black waterproof cap covers of various sizes; 20 navy blue peaked caps of various sizes; 40 white twill dustcoats; 70 pairs white knitted woollen gloves. Documents from Chief Constable, Central Police Station, Edward Street, Stockport. Tenders by May 18.

Stoke-on-Trent, Staffs.—Supply and delivery of 300 sets of blue bib-and-brace overalls, for City Council. Documents from the City Sewage Engineer, Leek Road, Stoke-on-Trent. Tenders by May 10.

Wakefield, Yorks.—Supply of uniform clothing, including raincoats, mackintoshes, shirts, collars, ties, helmets, caps and gloves for members of the City Police Force, for City Council. Documents from the Chief Constable, City Police Office, Cliff Parade, Wakefield. Tenders by May 20.

Wrexham, Denbighs.—The supply of 130 boiler suits, plain style, half belt, blue drill in various sizes, ranging from 36in. to 48in., for R.D.C. Tenders in sealed envelopes endorsed "Protective clothing," to Trevor L. Williams, clerk and solicitor, Imperial Buildings, Regent Street, Wrexham, by May 9.

DEMOLITION

***Banstead, Surrey.**—Demolition of military blockhouses, air-raid shelters, etc., for U.D.C. Deposit £2 2s. Tenders by May 25.

Cambridgeshire.—Contract 6010—demolition of the Touchwood Cafe on the Cambridge-Newmarket (A.45) road at Bottisham, for C.C. The cafe and outbuildings are to be demolished and completely removed, all materials to become the property of the contractor. Documents from the County Surveyor, Shire Hall, Cambridge. Tenders by May 9.

Downham, Norfolk.—Demolition of six cottages, Wretton Road, Stoke Ferry; and four cottages, Goddard's Yard, Northwold, for R.D.C. Documents from the Council's Surveyor, Council Offices, Downham Market. Tenders by May 16.

***Epsom and Ewell, Surrey.**—Demolition of cottages, for B.C. Deposit £2 2s. Tenders by May 30.

Grantham, Lincs.—Demolition and removal of 17 bungalows at Alma Park, for B.C. Documents from the Borough Surveyor, Guildhall, Grantham. Tenders by May 16.

Hastings, Sussex.—Demolition over a period of a few months of 12 two-storey steel houses at Broomgrove estate, for B.C. Documents from the Borough Engineer, 37 Wellington Square, Hastings. Tenders by May 10.

Kidderminster, Worcs.—Removal of cattle and sheep penning, the demolition of two wooden sale rings and the site clearance at the Old Cattle Market, New Road, for B.C. Documents from the Borough Engineer and Surveyor, 110 Mill Street, Kidderminster. Tenders by May 13.

Salford, Lancs.—Demolition of the following properties, for City Council: 251/255 Chapel Street, Salford, 3; 3/7 Irwell Street, Salford, 3. Documents from the City Engineer and Surveyor, Town Hall, Salford, 3. Tenders by May 11.

ELECTRICAL

Belfast.—Electrical installations for City Council: (i) Additions and alterations at Seaview Primary School, Seaview Drive (ii) installation in rural science greenhouse at Graymount Secondary School for Girls, Gray's Lane. Documents from Education Architect's Department, 40 Academy Street, Belfast. Tenders by May 19.

Belfast.—Electrical rewiring at Shankill Road Y.M.C.A., Belfast, for National Council of Y.M.C.A.'s Committee. Documents from Lewis, Baxter and Associates, 1 University Street, Belfast. Deposit £2 2s., by cheque. Tenders by May 9.

Blofield and Flegg, Norfolk.—Provision of electric wiring and fittings to 16 Council houses at South Burlingham, Hasingham and Buckenham, for R.D.C. Documents from the Housing Manager, Council Offices, Acle, Norwich. Tenders by May 16.

East Riding.—Installation of electrical services at the proposed Filey County Secondary School, for C.C. Applications to the County Architect, County Hall, Beverley. Tenders by May 20.

Essex.—Renewal of electrical services, including incidental builders' work, to the three-storey Gilbert County Technical School, Colchester, for C.C. Estimated cost £4,000. Applications to H. Conolly, county architect, County Hall, Chelmsford, by May 7.

Lancashire.—Electrical installation at Ulverston Hostel for Aged Persons, for C.C. Application to the County Architect, P.O. Box 26, County Hall, Preston, by 10.30 a.m., May 9.

Lichfield, Staffs.—Electrical installations in 90 dwellings, Wheel Lane estate, for City Council. Documents from D. Oglesby, city engineer and surveyor, Meredith House, 62 Wade Street, Lichfield. Tenders by May 20.

Luton, Beds.—Rewiring of 90 houses Corncastle Road, Hillborough Road and Farley Hill, for B.C. Documents from Borough Architect, Town Hall, Luton. Tenders by May 20.

Manchester.—Electrical installation to St. Mary's Road Primary School, Newton Heath, for City Council. Documents from City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 23.

Manchester.—Electrical installation to Royle Green Infants' School, Northenden, for City Council. Documents from the City Architect, P.O. Box 488, Town Hall, Manchester. Tenders by May 25.

Omagh, Tyrone.—Electrical installation in County courthouse, Omagh, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by May 16.

Sunderland, Dur.—Electrical installation, Southmoor Technical School extensions, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by May 13.

West Riding.—Following works, for C.C.: (1) Rewiring of the electrical installation at Normanton Secondary School; (2) rewiring of the electrical installation at Normanton C.E. (Aided) School; (3) rewiring of the electrical installation at South Kirkby Common Road Infants' School. Applications to the Divisional Architect, Bishopgarth, Westfield Road, Wakefield, by May 16. Tenders by May 30.

FENCING

Adlington, Lancs.—Erection of 176 lin. yd. of chain link fencing, for U.D.C. Documents from the Surveyor, Council Office, Adlington. Tenders by May 17.

Grantham, Lincs.—Supply and erection of approximately 750 lin. yd. of concrete post and wire fencing at Byron Avenue, for B.C. Documents from the Borough Surveyor, Guildhall, Grantham. Tenders by May 16.

Harrow, Middx.—Replacement of fences, front gates and posts, and provision of close boarded screens on the Elstree Hill estate, Elstree, Herts, for B.C. Documents from the Borough Engineer and Surveyor, Council Offices, Cottesmore, 48 Uxbridge Road, Stanmore, Middx. Deposit £2, cheque payable to Corporation. Tenders by May 17.

Newtownabbey, Antrim.—Supply of mild steel vertical bar railing, for U.D.C. Documents from the Town Surveyor's Office, Town Hall, Whitehouse, Newtownabbey. Tenders by May 13.

***Norfolk.**—Supply of fencing, for C.C. Tenders by May 18.

West Riding.—Supply and erection of approximately 540 lin. yd. of reinforced concrete post and two rail fence with 42 pairs of gate posts and 35 lattice gates complete with all necessary fittings at Bawtry, for C.C. Documents from the office of the Assistant County Surveyor, West Riding County Council, Area and Divisional Offices, Station Road, Doncaster. Deposit £1, cheques payable to West Riding Treasurer. Tenders by May 11.

GAS AND WATER SUPPLY

Ballymoney, Antrim.—Regional water supply scheme, primary distribution mains as follows, for R.D.C.: (Contract 12c) Approximately 8½ miles of flexible jointed spun-iron pipes, 10in. to 3in. in diameter; (12d) approximately 7½ miles of flexible jointed spun-iron pipes, 9in. to 3in. in diameter; (14a) approximately 9½ miles of flexible jointed spun-iron pipes, 9in. to 3in. in diameter; (14b) approximately 8½ miles of flexible jointed spun-iron pipes, 7in. to 3in. in diameter. Documents from Waterhouse and Rounthwaite, consulting engineers, Friends' Provident Buildings, 58 Howard Street, Belfast, 1, and 165 Westmorland Road, Newcastle upon Tyne, 4. Deposit £5 5s. each. Plans also seen at the Council Offices, Riada House, Charles Street, Ballymoney. Tenders by May 30.

Blofield and Flegg, Norfolk.—Minor extensions to the water supply at Slofield, Lingwood, South Walsham and Upton, for R.D.C. Works comprise approx. 1,443 yd. of 3in. dia. spun-iron pipes and 445 yd. of 2in. plastic p.v.c. tube. Documents from the Department of the Engineer and Surveyor, Council Offices, Acle. Tenders by May 16.

Dungannon, Tyrone.—Water extensions, contract 12, for R.D.C., comprising supplying and laying of 3in. and 2in. diameter spun-iron and asbestos-cement water mains to a total approximate length of 13½ miles. Documents from the offices of the Dungannon Rural District Council, Dungannon. Deposit £3 3s. Tenders by May 12.

***Dursley, Glos.**—Comprehensive scheme of water supply, contract 4, for R.D.C. Apply by May 14. Deposit £5 5s.

Forehoe and Henstead, Norfolk.—Provision and laying of about 3,500 yd. of 4in. and 3in. diameter spun-iron pipe water mains at Welborne, for R.D.C. Documents from Elliott and Brown, consulting engineers, Stanley House, Felham Road, Nottingham. Deposit £5 5s. (cheques payable to R.D.C.). Tenders by May 30.

Glendale, Northumb.—Regional water scheme, contract 7, for R.D.C. Deposit £5 5s. Tenders by May 24.

Harrow, Middx.—Renewal of existing lead rising mains and cold water services, including stop valves and all ancillary works thereto to dwellings on the Berridge, Wolverton Road (Stanmore) and Woodlands Drive estates, for B.C. The work will be let in three separate contracts. Documents from the Borough Engineer and Surveyor, Council Offices, Cottesmore, 48 Uxbridge Road, Stanmore. Deposit £2. Tenders by May 17.

Leeds.—Laying of approximately 1,180 lin. yd. of 10in. diameter spun-iron pumping main, together with the reconstruction of the Shadwell pumping station and ancillary works, for City Council. Documents at the City Engineer's Office, Room 752, Civic Hall, Leeds, 1. Deposit £2 2s. (cheques payable to the Corporation). Tenders by May 20.

Lindsey.—Sinking and testing of a borehole at a site approximately 2½ miles east of Thornton Curtis, for North Lindsey Water Board. The borehole will be 24in.-18in. diameter to a depth of 250-350ft. Documents from the office of the Engineer to the Board, Laneham Street, Scunthorpe, Lincs. Tenders by May 23.

Llangollen, Denbighs.—Construction of sedimentation tanks, the provision and laying of approximately 900 yd. of 6in. and 8in. diameter concrete-lined spun-iron mains, and other incidental works, contract 1, for U.D.C. Applications, in writing, to Richards and

Dumbleton, consulting engineers, Cornwall Buildings, 45 Newhall Street, Birmingham, 3, and Greenways, Portmadoc, Caerns. Deposit £3, payable to U.D.C. Plans also seen at the office of E. Ellis Roberts, clerk of the Council, Town Hall, Llangollen. Tenders by May 27.

Londonderry.—Supply and installation of the following, at Kilcaltan, for R.D.C.: Electrically driven centrifugal or submersible-type pumping equipment, capable of pumping water at the rate of 150 gallons per minute through 80ft. head. Documents from W. D. R. and R. T. Taggart, consulting engineers, 13 College Gardens, Belfast, 9. Deposit £5 5s., cheques payable to R.D.C. Tenders by June 3.

Manchester.—Manufacture, supply and installation at Clayton Bridge, of one submersible borehole pump, capable of raising 10,000 g.p.h., together with pipework valves, etc., contract M.D.1, for City Council. Documents from the Secretary, Waterworks Offices, Town Hall, Manchester, 2. Tenders by May 16.

Newcastle upon Tyne.—Supply of shell and auger equipment, casing, winch set and shear legs, to sink 8in. nominal diameter boreholes, and 4in. nominal diameter soil sampling equipment, for City Council. Documents from the City Engineer, Town Hall, Newcastle upon Tyne, 1. Tenders by May 10.

Norwich.—Construction of reinforced concrete water tower, for City Council. Tenders by May 23.

Roxburghshire.—Ale Water scheme, contract 16, for C.C., including taking delivery of, cutting trenches for, and laying and jointing a total of 6½ miles of 18in., 15in. and 9in. diameter spun-iron pipes, from Newlands to Greenend. The contract also includes taking delivery of, assembling, and placing in position, a tubular steel pipe bridge of 60ft. span carrying a 15in. diameter steel water main across the Ale Water. Applications to Crouch and Hogg, civil engineers, 18 Woodside Crescent, Glasgow, C.3, by May 16.

Upton-upon-Severn, Worcs.—Water main extension, for R.D.C., including the laying of approx. 2,100yd. of 3in. spun-iron main at Gilberts End, Hanley Castle. Documents from the Surveyor, Council Offices, Upton-upon-Severn. Deposit £2. Tenders by May 9.

Wellington, Som.—Water supply to northern and central parishes, for R.D.C. Deposit £5 5s. Tenders by June 8.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Havant and Waterloo, Hants.—Sea defences—Eastoke Corner, Hayling Island, for U.D.C. Tenders by May 12.

Portsmouth.—New fitting-out berth, Inner Camber, for City Council: Piling and dock construction, including a 15in. reinforced deck, 150ft. by 45ft., supported on piles approximately 60ft. long, a retaining wall, dredging and incidental works. Documents from the City Engineer, 1 Clarence Parade, Portsmouth. Deposit £2. Tenders by May 25.

HEATING AND VENTILATING

Birmingham.—Installation of hot water (backboiler) systems, and wash-hand basins, to 1,000 non-parlour type houses situated in the Pye Hayes and Acocks Green areas, for City Council. Contractors may tender for all or groups of 250 installations. Documents from J. P. Macey, housing manager, Housing management Department, Bush House, Broad Street, Birmingham, 1. Deposit £2 2s. Tenders by May 10.

Chelmsford, Essex.—Erection of a two-storey block of flats at Hunts Drive, in the Parish of Writtle, for R.D.C., comprising two self-contained units for old persons on the ground floor with two two-bedrooms flats on the first floor. Documents from the Council Offices, (Room 27), New London Road, Chelmsford. Deposit £2, cheques payable to R.D.C. Tenders by May 16.

East Riding.—Installation of heating, hot and cold water services and boiler house plant at the new County Primary Infants' School at Anlaby, for C.C. Documents from the County Architect, County Hall, Beverley. Tenders by May 19.

Essex.—Following, at Grays Hall Youth Centre and Youth Employment Bureau, for C.C.: Provision of oil-fired central heating apparatus, which is to be completed by the beginning of the next heating season. Estimated cost £2,950. Applications to H. Conolly, county architect, County Hall, Chelmsford, by May 7.

Hull.—Central heating installation at Chiltern Street School, for City Council. Documents from Andrew Rankine, city architect, Guildhall, Hull. Deposit £2 2s., to City Treasurer. Tenders by May 11.

Penge, Kent.—Installation of boiler and hopper, for U.D.C. Deposit £5 5s. Tenders by May 27.

Portsmouth.—Following works, for City Council: (a) Great Salters Nurseries—removal of two existing boilers, supply and erection of one oil-fired cast-iron heating boiler, complete with automatic controls, fuel oil storage tank, etc.; (b) Victoria Park Conservatory—supply and fixing of oil-firing equipment to two existing cast-iron heating boilers, complete with automatic controls, fuel oil storage tank, etc. Documents from the City Engineer, 1 Clarence Parade, Portsmouth. Deposit £1. Tenders by May 25.

Sunderland, Dur.—Renewing heating boilers in several schools, for B.C. Documents from the Borough Engineer, 27 Fawcett Street, Sunderland. Deposit £2 2s., cheques payable to Corporation. Tenders by May 16.

Sunderland, Dur.—Heating, etc., installation, Monkwearmouth community centre, for B.C. Documents from Borough Architect, Grange House, Stockton Road, Sunderland. Tenders by May 13.

HOUSING SCHEMES

Aberdeen.—Following works involved in the erection of 70 houses at Kincorth scheme section 44, for City Council: Excavator, concrete, mason and brick; carpenter, joiner and ironmonger; roof tiler and roughcast; plumber; lath and plaster; electrical; glazier and supply and installation of fireplaces. Applications in writing to the City Architect, 11 Broad Street, Aberdeen, by May 12.

Adwick-le-Street, Yorks.—Erection of a block of four shops with flats, also 16 flats at Lawn Avenue. Woodlands, including drainage and other works, for U.D.C. Applications to W. S. Ellis, engineer and surveyor, Council Offices, Adwick-le-Street, by April 30. Deposit £2 2s. Tenders by May 14.

Barnsley, Yorks.—Erection and completion of houses as follows, for B.C.: Two pairs semi-detached houses, Honeywell Grove; one detached house, Moxon Square, Ardsley. Documents from the Borough Engineer, Town Hall, Barnsley. Deposit £2 2s. Tenders by May 16.

Birmingham.—Fourteen dwellings at Woodcock Lane, Northfield (contract 715), and 50 dwellings at Kings Heath area (contract 730), for City Council. Deposit £2 2s. Tenders by June 10.

Blackrod, Lancs.—(1) 54 dwellings and (2) roads and sewers, for U.D.C. Deposit £2 2s. Tenders by May 30.

Brentwood, Essex.—Erection of 72 flats and eight houses at Hutton estate, for U.D.C. Documents from Engineer and Surveyor, Council Offices, Brentwood. Deposit £2 2s. Tenders by May 25.

Chadderton, Lancs.—Three two-bedroom-type houses on the Hamilton Street housing site, and 12 one-bedroom-type bungalows, 28 two-bedroom-type houses and 26 three-bedroom-type houses on the Broadway housing site, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Chadderton. Deposit £2 2s. Tenders by May 21.

Chesterfield, Derbys.—Eighty-four traditional type brick-built dwellings on the Peveril estate, for B.C. Documents from the office of the Borough Engineer and Surveyor, Town Hall, Chesterfield. Deposit £2 2s. Tenders by May 24.

Denton, Lancs.—Sixty houses (two and three-bedroom type) in blocks of four and semi-detached pairs, at Dark Lane Farm 3 site, 1 scheme, for U.D.C. Applications to the Engineer and Surveyor, Town Hall, Denton. Deposit £2 2s. Tenders by June 9.

Ealing.—Sixteen flats at Lyncroft Gardens, London, W.13, for B.C. Documents from the Borough Surveyor, Town Hall, Ealing, London, W.5. Deposit £5. Tenders by May 20.

East Kesteven, Lincs.—Erection of six traditional bungalows at Timberland, for R.D.C. Documents from the Architect, Council Offices, 14 Northgate, Sleaford. Tenders by May 26.

Eston, Yorks.—Erection of 12 dwelling-houses, Grange town housing estate (southern section), for U.D.C. Documents from N. C. Harrison, engineer and surveyor, 246 Normanby Road, South Bank, Middlesbrough. Deposit £1 1s. Tenders by May 10.

Forfar, Angus.—Following trades for Fruit-hill housing scheme second development of 24 houses, for B.C.: Excavator, brick and concrete work; carpenter, joiner and glazier work; plumber work; plaster work; slater and roughcast work; electrical work. Applications to Wm. S. McCulloch, town clerk, Municipal Buildings, Forfar. Plans seen at the office of D. I. Burchell and Partners, quantity surveyors, Clydesdale Bank Buildings, Forfar.

Grantham, Lincs.—Erection of 43 houses, for B.C. Documents from Borough Surveyor's Office, Guildhall, Grantham. Deposit £2 2s. Tenders by May 23.

Hemel Hempstead, Herts.—Fifteen houses and 20 lock-up garages at Wheelers Lane, for B.C. Documents from A. H. Turner, borough

engineer, High Street, Hemel Hempstead. Tenders by May 24.

Hemel Hempstead, Herts.—Beechfield scheme 7, for B.C., comprising 12 Homeville two-storey flats and six garages on the site of the old Anchor public house. Documents from A. H. Turner, borough engineer and surveyor, High Street, Hemel Hempstead. Tenders by May 24.

Holywell, Flint.—Erection of 50 houses, complete with paths, fences, branch drains and branch water mains, at Greenfield Hall estate, for U.D.C. Documents from W. Isherwood, engineer and surveyor, Town Hall, Holywell. Deposit £2. Plans also seen at the office of A. W. West, quantity surveyor, Westminster Bank Chambers, Church Street, Wrexham. Tenders by June 4.

Hoyland, Yorks.—Sixteen two-bedrooms houses together with external services, roadworks, at Greenfield estate, for U.D.C. Documents from the Engineer and Surveyor, Town Hall, Hoyland. Tenders by May 9.

Huddersfield, Yorks.—Electrical installation, including under floor electrical heating, for two blocks of 11-storey flats, Northgate/Southgate, for B.C. Documents from the Borough Architect's Office, High Street Buildings, Huddersfield. Tenders by May 13.

Huntingdon.—Six bungalows at Great Stukeley, for R.D.C. Documents from J. S. Simms, surveyor, Montagu House, Huntingdon. Deposit £2 2s. Tenders by May 18.

Isle of Wight.—Erection of (a) four bungalows at High Street, Freshwater; and (b) three bungalows at Colwell Lane, Totland, for R.D.C. Documents from 30 Pyle Street, Newport. Deposit £2 2s. Tenders by May 17.

Lancashire.—One pair of police houses at Ulverston, for C.C. Application to the County Architect, P.O. Box 26, County Hall, Preston, by 10.30 a.m., May 9.

Manchester.—Following, for City Council: (Contract 337) Nine dwellings—Weller Avenue, Didsbury; (339) 36 dwellings—Ossington Walk, Wythenshawe. Documents from the Director of Housing, Room 626, Town Hall, Manchester. Tenders by May 19.

Morpeth, Northumb.—Eighteen houses, complete with outhouses, drainage and footpaths, and the construction of eight garages at Mitford, for R.D.C. The work to be done also includes the construction of carriageway extensions, and the provision of flagged footpaths throughout the estate. Documents from J. R. Miles, engineer and surveyor, Council Offices, Dacre Street, Morpeth. Deposit £2 2s. Tenders by May 24.

Nottingham.—Erection of 10 flats, six bungalows and 26 garages, Bilborough estate, for City Council. Applications to E. W. S. Martin, the estates surveyor and valuer, The Guildhall, Nottingham, by 9 a.m., May 9. Deposit £2 2s., cheque payable to Corporation. Tenders by June 13.

Pembroke, Pems.—Following, for R.D.C.: (a) Angle site one—erection of one pair of bungalows, type O.P. 7a, together with all necessary works complete; (b) Angle site two—erection of two pairs of bungalows, type O.P. 7a, together with all siteworks complete. Documents from J. Owen Parry and Lewis, architects, Ammanford, or Frederic S. Jones, clerk of the Council, Tudor House, Pembroke. Deposit £3 3s. Tenders by May 11.

Pontypool, Mon.—Following, for U.D.C.: Seventy-eight houses (nine blocks of six and 12 pairs) at Trevelthyn neighbourhood unit, phase 2, scheme E. Applications to C. Dawkes, architect, Council Offices, Pontypool, Pontypool. Deposit £2 2s. Tenders by May 23.

Port Talbot, Glam.—Traditional housing at Sandfields, for B.C. Deposit £2 2s. Tenders by May 23.

Port Talbot, Glam.—Traditional housing at Fairfield, for B.C. Deposit £2 2s. Tenders by May 23.

St. Asaph, Flint.—Twelve houses and incidental works at Bro Havad, and seven houses and incidental works at Castle Street, Rhuddlan, for R.D.C. Applications to F. C. Roberts, architect, Earl Chambers, Mold, by May 9. Deposit £2 2s. Tenders by June 16.

St. Ives, Hunts.—Six bungalows at Wyton, for R.D.C., including house drains and drainage works, surface water drains fencing, the construction of approximately 290 super. yd. of macadam roadway and 540 super. yd. of macadam footpath. Documents from the architects, Lea, Milner and Wardley, 4 Market Hill, Huntingdon. Deposit £1 1s., cheque payable to R.D.C. Tenders by May 26.

Salisbury and Wilton, Wilts.—Erection of three bungalows in the parish of Winterlow, for R.D.C. The work includes fencing, paths, water supply, drains and septic tank. Documents from C. S. Brown, clerk of the Council, Council Offices, 26 Endless Street, Salisbury. Plans seen at the offices of Bothams and Brown, architects, 32 Chipper Lane, Salisbury. Deposit £2 2s. Tenders by May 16.

Seaton Valley, Northumb.—Forty-eight houses at Cramlington, for C.C. Documents

from the Surveyor, Council Offices, Seaton Delaval, Whitley Bay. Tenders by May 21.

Urmston, Lancs.—Erection of 28 aged persons bungalows at Blair Avenue, Irlam Road, Flixton, for U.D.C. Documents from the Surveyor's Department, Crofts Bank Road, Urmston. Tenders by May 16.

Wakefield, Yorks.—Ten semi-detached houses at Flanshaw, and 14 semi-detached houses at Eastmoor, as two separate contracts, for City Council. Documents from the City Engineer, Town Hall, Wakefield. Tenders by May 16.

Wandsworth.—Seven-storey block of 21 flats at Southcroft Road, for B.C. Applications by May 11, 1960, giving details of experience, plant and technical and supervisory staff available, together with names of two technical and two financial referees. Plans seen at the office of J. Hewitt Mitchell, A.R.I.B.A., 140 Streatham Hill, S.W.2. J. Noel Martin, Town Clerk, Municipal Buildings, Wandsworth, S.W.18, by May 11.

Wellingborough, Northants.—Four one-bedroom flats in one two-storey block, eight garages, external services and siteworks at Charnwood, The Avenue, for U.D.C. Applications to R. Kilby, engineer and surveyor, Council Offices, Swanspool, Wellingborough. Deposit £2 2s. Tenders by May 16.

Wells, Som.—Erection of a block of 11 flats and two pairs of bungalows, together with incidental works, on the site at Vicarage Road, Wookey, for R.D.C. Documents from the office of the Engineer and Surveyor, Wookey Hole Road, Wells. Deposit £3 3s. Tenders by May 17.

West Riding.—Crigglestone Secondary School site, Paintthorpe Lane, one pair semi-detached constable type houses, for C.C. Applications to the West Riding County Architect, Bishopgarth, Westfield Road, Wakefield, by May 9. At the time of application it must be stated if an additional copy of the bill of quantities is required.

Whitchurch, Salop.—Erection of pair of semi-detached three-bedroom houses with attached outbuildings at Bath Street, for U.D.C. Documents from the Engineer and Surveyor, Pauls Moss, Dodington, Whitchurch. Deposit £2 2s., cheque payable to U.D.C. Tenders by May 16.

Workson, Notts.—Twenty-two traditional type houses and roadworks on five adjacent infilling sites in Dudley Road, Long Lane and Beckett Avenue at Carlton-in-Lindrick, for R.D.C. Documents from the office of the Architect, 102 Bridge Street, Workson. Deposit £3 3s., cheque payable to R.D.C. Tenders by May 25.

MATERIALS AND SUPPLIES

Aberdeen.—Supply of the following, for City Council: Derv motor spirit and residual fuel/gas oils, required by the Town Council's Public Service and Commercial Vehicles, stationary plant and heating, for the period from July 1, 1960, to June 30, 1961. The approximate requirements are 920,000 gallons Derv, 140,000 gallons motor spirit, 320,000 gallons residual fuel oil and 35,000 gallons gas oil. Delivery will be required to points within the City boundary, usually in consignments of 2,000 gallons for Derv and in 500 gallons for motor spirit and residual fuel/gas oils. Tenders enclosed in envelopes endorsed "Tenders for Derv Motor Spirit and Residual Fuel/Gas Oils," to the General Manager, Transport Department, 2 Marischal Street, Aberdeen, by May 9.

Bognor Regis, Sussex.—Supply of approximately 1,000 tons of purified unstoved vacuum salt during the 12 months commencing July 1, 1960, for U.D.C. Documents from the Water Engineer and Manager, Town Hall, Bognor Regis. Tenders by May 28.

Dundee.—Supply of five tons of lead piping to British Standard Specifications and five tons of pig lead of 99.97 per cent. purity in 56lb. and 84lb. bars, for B.C. Documents from the Engineer and Manager, Water Department, 1 Shore Terrace, Dundee. Tenders by May 9.

Durham.—Supply of the following, for C.C.: Motor fuel, burning oils, lubricating oils, greases, motor vehicle batteries, rubber tyres, rubber tubes, rubber tyre remoulds, and sparking plugs during the year ending June 30, 1961. Documents from the County Engineer and Surveyor, Aykley Heads, Durham. Tenders by May 13.

***Durham.**—Supply of light canteen equipment, etc., for C.C. Tenders by May 20.

Great Yarmouth.—Supply of materials to be used in connection with the installation of hot water services to pre-war council houses, for B.C. Documents from the Housing Manager, 11 Hall Quay, Great Yarmouth. Tenders by May 9.

Inverness.—Supply of the following to the Inverness Hospitals for the period June 1, 1960, to May 31, 1961, for Board of Management: Earthenware; glassware; floor polish; soaps; paints; blankets; uniforms—nursing and

domestic; uniforms—male; uniforms—female; patients' clothing—male; patients' clothing—female; linen and drapery. Documents from the Secretary and Treasurer of the Board, 14 Ardross Street, Inverness. Tenders by May 12.

Lichfield, Staffs.—Supply of the following for 90 dwellings at Wheel Lane estate, for City Council: (1) Sanitary fittings; (2) thermoplastic floor tiles; (3) fireplaces and tiled surrounds; (4) dustbins; (5) ironmongery. Documents from D. Oglesby, city engineer and surveyor, 62 Wade Street, Lichfield. Tenders by May 20.

Manchester.—Supply of diesel oil, heating oil, and Creosote oil during the 12 months ending June 30, 1961, for City Council. Documents from the General Manager, Rivers Department, P.O. Box 488, Town Hall, Manchester, 2. Tenders by May 9.

Northern Ireland.—Following, for Housing Trust: Supply of builders' hardware to the Trust's contractors throughout Northern Ireland. Documents from and samples inspected at the Offices of the Trust, 12 Hope Street, Belfast, 12. Tenders by May 17.

Welwyn Garden City, Herts.—Supply of the following housing materials, for U.D.C.: (a) 200 tiled surrounds; (b) 200 backboiler units; (c) 200 Finch throat units. Documents from the Housing Manager, Council Offices, Welwyn Garden City. Tenders by May 16.

West Riding.—Supply of material required in connection with the winter gritting of the county roads, for C.C. Deliveries of material will be required during the period Aug. 1, 1960, to March 31, 1961. Documents from the County Engineer and Surveyor, County Hall, Wakefield. Tenders by May 16.

West Suffolk.—Supply of the following for the 12 months commencing August 1, 1960, for Co. E.C.: Fuel oil; sweeping compounds and cleaning materials; toilet rolls. Documents from R. F. A. Carter, chief education officer, Manor House, Bury St. Edmunds. Tenders by May 9.

PLANT AND MECHANICAL TRANSPORT

Armagh.—Supply and delivery, for R.D.C., of one concrete mixer, half-bag size, four-stroke petrol engine, suitable for fast highway towing. Brakes, cable rods, etc., to be enclosed. Delivery date must be stated. Sealed tenders, endorsed "Concrete Mixer," to J. A. Dawson, clerk of the Council, Rural District Council Offices, Tower Hill, Armagh, by noon, May 9.

***Berkhamsted, Herts.**—Supply plant, for U.D.C. Tenders by May 12.

***Berkhamsted, Herts.**—Supply Karrier Gamecock refuse vehicle, for U.D.C. Tenders by May 12.

***Brighouse, Yorks.**—Supply of a portable air compressor, for B.C. Tenders by May 18.

***Coseley, Staffs.**—Tenders for plant, for U.D.C. Tenders by May 10.

Crawley, Sussex.—Supply of an International BTD6 crawler tractor or Ford county crawler tractor with angledrozer, for U.D.C., for use at the refuse tip, on the basis that a Bristol 25 tractor is to be taken in part exchange. Documents from the Engineer and Surveyor, Goff's Park House, Horsham Road, Crawley. Tenders by May 13.

Dagenham, Essex.—Supply of one vehicle washing plant and a steam cleaning unit for use at the transport workshops, for B.C. Documents from the Borough Surveyor, Civic Centre Dagenham. Tenders by May 14.

Durham.—Supply of one Austin 101 Express delivery van, for C.C. Documents from the County Surveyor, Aykley Heads, Durham. Tenders by May 13.

East Suffolk.—Hire of a tower crane for use at Aldeburgh, Suffolk, for an estimated period of three months, for East Suffolk and Norfolk River Board. The job is required to have a lifting capacity of approximately one ton at approximately 100ft. radius at a low level. Documents from the Board's chief engineer, K. E. Cotton, The Cedars, Alde-marle Road, Norwich. Tenders by May 12.

Eston, Yorks.—Supply of a Karrier dual-type refuse collection vehicle, for U.D.C. Documents from the Chief Public Health Inspector, Council Offices, Grangetown, Middlesbrough. Tenders by May 12.

Gloucestershire.—Construction of five light alloy single dropside three-way tipping bodies, 5 cu. yd. capacity, for C.C. Documents from the County Surveyor, Quay Street, Gloucester. Tenders by May 20.

Newcastle upon Tyne.—Supply and delivery of the following, for City Council: (a) Two County Model C.D.50 angledozers; (b) one Fordson Major Muleadozer; (c) one Dennis 800-gallon gully/cesspit emptier; (d) one light van; (e) one saloon car. Documents from the Director of Public Cleansing, Cleansing Department, Newton Road, Newcastle upon Tyne, 2. Tenders by May 11.

Oundle and Thrapston, Northants.—Supply and delivery of a petrol driven 18 cu. yd. capacity dual-tip refuse collection vehicle on a Karrier Gamecock chassis, for R.D.C. Docu-

ments from the Surveyor, Council Offices, Midland Road, Thrapston, Kettering. Tenders by May 11.

***Leicester.**—Supply of a diesel crawler tractor shovel, for City Council. Tenders by May 21.

***Lewisham.**—Supply of vans, for B.C. Tenders by May 28.

Newton Abbot, Devon.—Supply of one 3-ton long wheelbase normal control diesel engine vehicle, complete with wooden drop side body, steel plated floor and hydraulic tipping gear, the supplier taking in part exchange a 3-ton long wheelbase Austin hydraulic tipper, for R.D.C. Documents from the Surveyor to the Council, Council Offices, Kingsteignton Road, Newton Abbot.

***Peterborough.**—Supply of refuse collection vehicles, for City Council.

Wayland, Norfolk.—Supply of a diesel-powered, side-loading, 12 cu. yd. capacity refuse collection vehicle, fitted with Dunlop road trak tyres. The cab to accommodate driver and one other employee. The vehicle to be equipped with number plates and painted and lettered to match present vehicles (green and black), for R.D.C. Suppliers to make allowance for part exchange of similar vehicle, i.e., Dennis with petrol engine, which can be viewed by arrangement with the Council's public health inspector. Tenders should state date of delivery, and be addressed to L. G. Francis, clerk of the Council, Council Offices, Attleborough, by May 20.

Wortley, Yorks.—Supply and delivery of the following, for R.D.C.: (a) Two side-loading petrol-driven forward control refuse collection vehicles of approx. 10 cu. yd. body capacity, with double cab; (b) 96 sets of overalls; (c) 48 overcoats. Documents from the Chief Public Health Inspector, Council Offices, Grenoside, near Sheffield. Tenders by May 21.

PLAYING FIELDS, PARKS, ETC.

***Camberwell.**—Layout of civilian war graves memorial and avenue of remembrance, for B.C. Tenders by May 23.

***Rochester, Kent.**—Levelling and seeding of Laburnum Road Recreation Ground, for City Council. Deposit £2 2s. Tenders by May 23.

RIVER AND FLOOD PREVENTION WORKS

***Dronfield, Derbys.**—River Drone flood relief scheme, for U.D.C. Deposit £2 2s. Tenders by May 20.

ROADS, BRIDGES AND SITE WORKS

Alton, Hants.—Construction of road, sewers and other ancillary works on the Sutton Field, Whitehill, housing site, for R.D.C. Documents from the office of the Engineer and Surveyor, Barton End, Alton. Deposit £3 3s. Tenders by June 1.

Bangor, Down.—Completion of Grange Road and Grange Avenue, for B.C. The work includes cleaning and weeding the site, making-up road levels with hardcore (1,880 sq. yd. approximately), laying a 3in. coat of tarmac and spraying and sealing it (1,920 sq. yd. approximately), supplying and laying 12in. by 6in. kerbs (61 lin. yd. approximately), making-up footpath levels with hardcore and preparing them for flagging (430 sq. yd. approximately), flagging the footpaths with 2ft. by 2ft. by 2in. flags (1,020 sq. yd. approximately), and other ancillary works. Documents from the Borough Surveyor, Town Hall, The Castle, Bangor. Tenders by May 17.

***Banstead, Surrey.**—Cold asphalt surfacing sections of A.217, for U.D.C. Deposit £2 2s. Tenders by May 17.

***Barking, Essex.**—Reconstruction of Alfred's Way, for B.C. Tenders by May 26.

***Basingstoke, Hants.**—Roads and sewers, 33rd instalment, South Ham, for B.C. Deposit £2 2s. Tenders by May 23.

Belfast.—Reinstatement of openings, etc., in asphalt surfaces during 11 months commencing July 1, 1960, for City Council. Documents from the City Surveyor's Department (Room 84), City Hall, Belfast, 1. Tenders by May 16.

Berwickshire.—Following works, for C.C.: London-Edinburgh-Thurso trunk road, A.1, contract 1, Howpark Burn diversion—construction of diversion of trunk road for a distance of 1,000 lin. yd. to provide a 24ft. carriageway and 12ft. margins. Works include river diversion in rock extending to 170 lin. yd., construction of 20ft. span masonry bridge, retaining walls, earthworks, drainage, surfacing, etc. Contract 2, Chapel-hill and Renton diversions—complete soil survey extending to approximately 500ft. of boreholes required in connection with the above diversion schemes. The survey to include geological investigation, boring, soil testing and interpretation of all aspects of the survey. Documents from Robert Martin, County Clerk, County Buildings, Duns. Deposit, £5 5s. cheque, each. Plans seen at the County

Surveyor's office, Southfield, Duns, and an engineer will meet contractors 10.30 a.m. May 10 at Cockburnspath Hotel in respect of contract 2 and at 2.15 p.m. at Howpark Bridge in respect of contract 1. Tenders by June 4.

Bexhill, Sussex.—Link road, Glovers Lane/North Road, for B.C., involving the construction of reinforced concrete carriageways, approx. length 50yd., average width 7yd., together with all footways, verges and drainage. Documents from the Borough Surveyor, Town Hall, Bexhill. Deposit £2 2s. Tenders by May 21.

Breconshire.—Resurfacing works, for C.C.: (a) Aberpedwar County Primary School—resurfacing of playground; (b) Bronllys V.P. (Controlled) School—resurfacing of roadway to school. Applications to the County Architect, Rhyl Offices, Brecon, by May 12.

***Caernarvon.**—Aber Bridge reconstruction, for B.C. Deposit £5 5s. Tenders by June 14.

***Cardiff.**—Fidlas Road improvement, for City Council. Deposit £2 2s. Tenders by May 13.

***Cardiff.**—Preparation works, part 1, Penarth Road industrial estate, for City Council. Deposit £2 2s. Tenders by May 17.

***Carlton, Notts.**—(a) Repairs to walls; (b) construction of carriageways, for U.D.C. Deposit £2 each. Tenders by May 17.

***Chigwell, Essex.**—Resurfacing footpaths, for U.D.C. Deposit £2 2s. Tenders by May 30.

Cookham, Berks.—Surface dressing of garage forecourts on the Shepherd's Close estate, Hurley, for R.D.C. Documents from A. Mandeville, engineer and surveyor, Council Offices, Oaklands, 1 Bath Road, Maidenhead. Deposit £2 2s. Tenders by May 12.

Coulston and Purley, Surrey.—Private street improvement works, for U.D.C.: (a) Meadow Hill (part of), Purley; (b) Walburton Road, Purley. Documents from the Council Offices, Purley. Deposit £3 3s. each. Tenders by May 27.

Derbyshire.—Construction of a 33ft. carriageway from Cromford cross-roads northwards towards Masson Mills, on trunk road A.6, for C.C. Works comprise 14,300 cu. yd. rock excavation, 4,500 cu. yd. earth excavation, tree felling, drainage, pre-mixed water-bound macadam foundation, 4,900 sq. yd. 3in. bitumen macadam base course, 1,000 lin. yd. kerbing, fence and retaining walls. Documents from County Surveyor, County Offices, Matlock, Derby. Deposit £5, cheques payable to C.C. Tenders by May 23.

***Dorking, Surrey.**—Construction of car parks, for U.D.C. Tenders by May 30.

East Kesteven, Lincs.—Preparation at the housing site at The Hoplands, Boston Road, Kirkby-la-Thorpe, for R.D.C., including the construction of approximately: 900 sq. yd. reinforced concrete road and footpaths; 200yd. 3in. diameter spun-iron water main; 350yd. 6in. foul and surface water sewers; sewage ejector station; 200yd. 4in. diameter spun-iron pumping main. Documents from the Engineer and Surveyor, Council Offices, 14 Northgate, Sleaford. Tenders by May 26.

Egremont, Cumb.—Supply and laying of a tarmac surface on approximately 239yd. of a concrete path 6ft. wide in the new section at Egremont cemetery, for Parish Council. Tenders, marked "Tarmac Path" to The Clerk to the Parish Council. (Burial Board), Town Hall, Egremont, by May 16.

***Epsom and Ewell, Surrey.**—Construction of roads and sewers, for B.C. Deposit £2 2s. Tenders by May 30.

***Essex.**—New road under railway bridge adjacent to Benfleet Station, for C.C. Deposit £5. Tenders by June 2.

***Farnworth, Lancs.**—Surface dressing of road, for B.C. Tenders by May 10.

Frome, Som.—Complete reconstruction of Zion Footpath, for U.D.C. Documents from the office of C. G. P. Lewis, engineer and surveyor, Municipal Offices, Frome. Deposit £2. Tenders by May 18.

Glamorgan.—Tenders for the making-up of the following private streets, for C.C.: (1) Highwalls Avenue (part), Dinas Powis, the principal works comprising carriageway surfacing, 580 super. yd. footways, foundation and/or surfacing, 225 super. yd. kerbing and incidental works; (2) Heol Gabriel (part) and Heol Coed Cae (part), Whitchurch, the principal works comprising footways, foundation and surfacing, 1,000 super. yd. kerbing and incidental works. Documents from the County Surveyor, County Hall, Cardiff. Deposit £3 each. Tenders by May 25.

***Halifax, Yorks.**—Surfacing of roads, for B.C. Deposit £1 each. Tenders by May 14.

Harrow, Middx.—Relaying of approx. 600 sq. yd. of slab paving, the laying of approx. 1,750 sq. yd. of in-situ concrete paving, the raking out and sealing of approx. 1,400 lin. yd. of expansion joints, and other works involved in the making-up of a private street, for B.C. Documents from the Borough Engineer, Council Offices, 48 Uxbridge Road, Stanmore.

Deposit £2, cheque payable to B.C. Tenders by May 31.

Haverfordwest, Pems.—Following, for B.C.: (a) The making-up of the private street, Crowhill, and ancillary works; (b) the making-up of the private street, Meadow View, and improvement works at Slade Lane. Documents from the Borough Surveyor, Pictou House, Haverfordwest. Tenders by May 23.

Helston, Corn.—Reconstruction of roads, for B.C., comprising some 11,000 super. yd. of scarifying, grading, and carpet coating, together with necessary kerbing, channelling and drainage works. Documents from the Borough Surveyor, The Guildhall, Helston. Tenders by May 24.

Hendon, Middx.—Wise Lane improvement, Page Street to Milesplit Hill, Mill Hill, N.W.7, for B.C. Applications to the Borough Engineer and Surveyor, Town Hall, Hendon, by May 16. Deposit £2 2s. Tenders by May 30.

Hendon, Middx.—Construction of footpath and works incidental thereto in Ashley Lane, N.W.4 (from Ashley Close to Oakhampton Road), for B.C. Applications to the Borough Engineer and Surveyor, Town Hall, Hendon, by May 16. Deposit £2 2s. Tenders by May 30.

***Hove, Sussex.**—Road works, for B.C. Tenders by May 20.

Hoylake, Ches.—Construction of car park at Dee Lane, West Kirby, for U.D.C., including the clearing and levelling of the site, which is approx. 1½ acres in extent, and the provision and surface dressing of a slag and hardcore foundation, as well as drainage, boundary walling, etc. Documents from the Engineer and Surveyor, 8 Riversdale Road, West Kirby. Deposit £2. Tenders by May 13.

***Huddersfield, Yorks.**—Reinstatement of footway, for B.C. Deposit £2 2s. Tenders by May 17.

Inverness.—Following, for B.C.: (1) Resurfacing of Baron Taylor's Street and Drummond Street; (2) surface dressing various streets. Resurfacing in hot-rolled asphalt of approx. 1,000 sq. yd. of carriageway, and for surface dressing approx. 30,000 sq. yd. of carriageway. Documents from the Borough Surveyor, Town House, Inverness. Tenders by May 14.

Ipswich, Suffolk.—Spraying of various roads with refined bitumen, the total quantity required to be supplied and sprayed is approx. 18,000 gallons, for B.C. Documents from the Borough Surveyor, 19 Tower Street, Ipswich. Tenders by May 16.

***Keynsham, Som.**—West View Road-Park Road improvement, for U.D.C. Deposit £2 2s. Tenders by May 20.

Kirkcaldy, Fife.—Surface dressing (whinstone and gravel) of 40,010 sq. yd. of roads, for B.C. Documents from the Borough Engineer and Surveyor, Town House, Kirkcaldy. Tenders by May 16.

***Lancashire.**—Bridgeworks on A.59, for C.C. Deposit £10. Tenders by June 3.

Lisbane, Down.—Following works to premises, for Northern Ireland General Health Services Board: (1) Tarmacadamming existing drives and paths; (2) constructing a car parking area; (3) tar spraying yard area; (4) tarmacadamming private road; (5) widening rear entrance to premises. Documents from the Secretary, 27 Adelaide Street, Belfast, 2. Tenders by May 16.

Llanelli, Carm.—Construction of approximately 6,000 sq. yd. of roadway together with the laying of 1,900 lin. yd. of 6in., 9in., and 12in. sewers at the Llwynwhilwg housing site, for B.C. Documents from the office of the Borough Engineer and Surveyor, Town Hall, Llanelli. Deposit £2 2s. Tenders by May 14.

Long Eaton, Derbys.—Following, for U.D.C.: (a) Surface dressing of 72,000 sq. yd. of carriageways; (b) supply of three metal kerbside bus shelters. Documents from Francis Turner, engineer and surveyor, Town Hall, Long Eaton. Tenders by May 22.

***Lowestoft.**—Making-up and sewerage Bishops Walk (part) and the Meads, for B.C. Deposit £2 2s. Tenders by May 20.

***Maidenhead, Berks.**—Making-up of Sperling Road, for B.C. Deposit £2. Tenders by May 27.

Mitcham, Surrey.—Resurfacing and reconstruction of sections of London Road (A.217), for B.C. Documents from the Borough Engineer and Surveyor, Town Hall, Mitcham. Tenders by May 12.

***Montgomeryshire.**—Road surface dressing, for C.C. Tenders by May 17.

Northampton.—Construction of the following, for B.C.: Approx. 320 lin. yd. of dual carriageway road with concrete foundation and asphalt surfacing, comprising the second section of the link road between Bridge Street, A.50, and Black Lion Hill, A.45, together with incidental works. Applications to the Borough Engineer, Guildhall, Northampton. Deposit £2 2s. cheque payable to Corporation. Tenders by May 28.

***Nuneaton, War.**—Roads and sewers at Wood Farm housing estate, for B.C. Deposit £2 2s. Tenders by May 30.

***Penge, Kent.**—Burning off, surfacing and laying hot rolled asphalt, for U.D.C. Deposit £2 2s. Tenders by May 30.

Ross and Cromarty.—Work at Peter's Bridge, Dingwall, on the London-Edinburgh-Thurso trunk road, route A.9, for C.C., comprising the erection of an 80ft. span, triple/single, extra wide Bailey Bridge over the existing bridge, together with all necessary walling, filling in ramps, surfacing, hand-railing, etc. (the Bailey Bridge material will be supplied by the Scottish Home Department). Documents from James Arrol, county surveyor, 84 High Street, Dingwall. An engineer will meet intending offerors at Peter's Bridge, Dingwall, at 10.30 a.m., May 7, to explain the extent of the work. Tenders by May 13.

***Rowley Regis, Staffs.**—Surface dressing of carriageways, for B.C. Deposit £2 2s. Tenders by May 16.

Roxburghshire.—Newcastle-Edinburgh trunk road, A.68, Lilliardsedge (South) improvement, for C.C., comprising 2,200 cu. yd. excavation, 1,190 cu. yd. imported filler, 5,500 sq. yd. road work, 1,300 lin. yd. concrete kerbing, drainage and fencing. Documents from the County Surveyor, County Offices, Newtown St. Boswells. Site meeting at Lilliardsedge southern lay-by, on May 10 at 11.30 a.m. Tenders by May 28.

St. Neots, Hunts.—Execution and completion of site development (completion) at Shirdley House estate, for U.D.C. Documents from H. H. Thomas, clerk of the Council, Council Offices, Huntingdon Street, St. Neots. Tenders by May 30.

Sale, Ches.—Surface dressing of approx. 42,000 sq. yd. of roads, for B.C. Documents from the Borough Engineer's Office, Town Hall, Sale. Deposit £2 2s. Tenders by May 16.

***Shrewsbury.**—Ditherington village redevelopment, part II, roads and sewers, for B.C. Deposit £2 2s. Tenders by May 25.

***Stockton-on-Tees, Yorks.**—Asphalt surfacing, 1960/61, for B.C. Deposit £2 2s. Tenders by May 23.

West Riding.—Repairs and resurfacing of playgrounds at Sharlston C.P. and Ossett Secondary Schools, for C.C. Documents from H. Thorpe, divisional education officer, St. John's House, 2 St. John's Square, Wakefield. Tenders by May 13.

West Riding.—Formation of road and repairs to tarmac road and surfaces at Brook Lodge, Selby, for C.C. Applications to the County Architect, Bishopcote, Westfield Road, Wakefield, by May 6. Tenders by May 23.

Whickham, Dur.—Surface dressing of approx. 86,476 super. yd. of roads by mechanical spraying plant to be carried out during the latter part of June, for U.D.C. Documents from J. Buggle, clerk of the Council, Council Offices, Whickham, Newcastle upon Tyne. Tenders by May 10.

Whitchurch, Salop.—Smallbrook Bridge reconstruction, for U.D.C.: Construction of two reinforced concrete retaining walls, together with incidental works, including carriageway and drainage, etc. Documents from Pauls Moss, Engineer and Surveyor, Dodington, Whitchurch. Deposit £3 3s. Tenders by May 31.

***Wortley, Yorks.**—Completion of road, Hillside Way, for R.D.C. Tenders by May 21.

***Wortley, Yorks.**—Surface dressing of roads, 1960, for R.D.C. Tenders by May 21.

***Wortley, Yorks.**—Completion of roads and footpaths, for R.D.C. Tenders by May 21.

***Wrexham, Denbigh.**—St. Mark's car park, works A and B, for B.C. Deposit £2 2s. each. Tenders by May 23.

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Amersham, Bucks.—Kiln Road, Prestwood, main drainage scheme, for R.D.C., comprising the construction of 1,200yd. of 6in. dia. sewer in flexibly jointed concrete pipe, an underground pumping station, 300yd. of 5in. dia. rising main and lateral connections to property boundaries, together with permanent reinstatement and all other ancillary works. Submit names to J. Godbehare, engineer and surveyor, Elmodesham House, 42 High Street, Amersham, by May 13. Proof of the execution of similar work should be given.

***Amthill, Beds.**—Sewerage of Maulden, Clophill and Silsoe, for R.D.C. Deposit £10. Tenders by June 27.

***Bedworth, War.**—Construction of foul sewer to serve Mount Pleasant estate, for U.D.C. Deposit £2 2s. Tenders by May 26.

***Bilston, Staffs.**—Construction of storm water sewer at Bunkers Hill Lane, for B.C. Deposit £2 2s. Tenders by May 27.

***Birmingham.**—Minworth new works, material and equipment, for Birmingham Tame and Rea District Drainage Board. Tenders by May 20.

***Bodmin, Corn.**—Westheath sewerage scheme, for B.C. Deposit £5 5s. Tenders by May 23.

***Brighouse, Yorks.**—Main drainage reconstruction scheme, contract 15. Tenders by May 18.

***Bromsgrove, Wores.**—Laying of a surface water sewer in North Road and West Road, together with ancillary works, for U.D.C. The approx. length of sewer is as follows: 195 lin. yd. of 6 in. surface water sewer; 81 lin. yd. of 9 in. surface water sewer. Documents from the Engineer and Surveyor, Council House, Bromsgrove. Deposit £2 2s. Tenders by May 20.

***Chapel-en-le-Frith, Derbys.**—Upper End sewerage, for R.D.C., including construction of a sewage disposal works, comprising tanks, filters, pump house, etc., together with approximately 1,600 yd. of 15 in., 12 in., 9 in. and 6 in. sewers, including manholes and sewage ejector station, and all incidentals thereto, in the parish of Wormhill. Documents from Brady and Partington, engineers, Market Street, Chapel-en-le-Frith. Deposit £5. Tenders by May 20.

***Chelmsford, Essex.**—Supply of approx. 15,000 cu. yd. of bacteria bed media, complying with B.S. 1438/1948, for B.C. Written applications to the Surveyor, Municipal Offices, Coval Lane, Chelmsford. Tenders by June 6.

***Eton, Bucks.**—Construction of a small automatic electrical sewage pumping installation, together with 23 foul water manholes on existing sewers, and appurtenant works, for U.D.C. Applications to R. E. Terry, surveyor, Council Offices, 102 High Street, Eton, by May 7. Deposit £2 2s.

***Gloucester.**—Longford sewage disposal works, contract 3, for R.D.C. Apply by May 21. Tenders by May 28.

***Haltemprice, Yorks.**—Construction of approximately 1,700 lin. yd. of sewer, varying from 42 in. to 60 in. in diameter, mainly in fields from Hull Road, Cottingham, to Priory Road, Cottingham, for U.D.C. Documents from the Engineer and Surveyor, Anlaby House, Anlaby. Deposit £1, payable to Treasurer. Tenders by May 12.

***Horbury, Yorks.**—Sewerage scheme, for U.D.C.: (Contract 1) Construction of approximately 1,086 yd. of 15 in. to 33 in. diameter concrete pipe sewers, manholes, filter, humus tanks, sludge beds and two pumping stations, together with ancillary works, at Horbury; (2) supply and erection at Horbury of two 375 gallons per minute filter effluent pumps and two 200 gallons per minute sludge pumps, all complete with electric motors, starters and accessories. Documents from John H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6. Deposit £3 3s. each (cheques payable to U.D.C.). Tenders by May 20.

***Horsham, Sussex.**—Surface water diversion, Horsham Park, for U.D.C. Apply by May 10.

***Lambeg, Antrim.**—Construction of one mild steel sluice gate and operating gear for use on the reconstructed Penweir No. 5, near Lambeg, for Ministry of Finance. Documents from Room 103, Law Courts Building, Belfast, 1. Tenders by May 19.

***Launceston, Corn.**—Construction of sewerage and sewage disposal works, for B.C. Deposit £7 7s. Tenders by June 11.

***Lisburn, Antrim.**—Following works, for R.D.C.: (1) Sewage disposal works at Ballynadolly, including 360 yd. of 9 in. dia. sewer; (2) relief sewer, Ardmore Avenue, Finaghy, comprising the laying of approx. 90 yd. of 9 in. dia. sewer. Documents from Rural District Council Offices, Harmony Hill, Lisburn. Tenders by May 16.

***Lothlingland, Suffolk.**—Sewerage contract 8, New Pakefield Holiday Camp. Construction of a pumping station and approx. 1,200 yd. of 4 in. asbestos-cement rising main at Pakefield, in the Parish of Gisleham, for R.D.C. Documents from A. P. I. Cotterell and Son, engineers, 54 Victoria Street, Westminster, S.W.1, on or after April 29. Deposit £3 3s. Plans also seen at the Council's Offices, Rectory Road, Lowestoft. Tenders by May 23.

***Lymm, Ches.**—Sewerage contract 1, for U.D.C., comprising the construction of approx. 2,250 lin. yd. of 9 in., 12 in., 15 in., and 18 in. diameter concrete pipe sewers, together with manholes and appurtenant works. Documents from the offices of Charles J. Lomax and Sons, consulting engineers, 68 Barton Arcade, Manchester, 3. Deposit £5 5s., cheque payable to U.D.C. Tenders by May 9.

***Maidstone, Kent.**—Supply and erection at the Allington Sewage Pumping Station of two "no-choke" two-speed electrically driven pumping sets, rated at 5 to 7 m.g.d. and 9 to 11 m.g.d., respectively. WM18 contract M13, for B.C. Documents from the offices of Howard Humphreys and Sons, consulting engineers, Victoria Station House, Victoria Street, Westminster, S.W.1, by May 20. Deposit £5 5s., payable to the Corporation. Tenders by June 13.

***Manchester.**—Construction of 70 lin. yd. of 36 in. dia. concrete tube culvert and one pre-

cast concrete manhole, at Clayton Brook, for City Council. Documents from the City Surveyor (Room 223), Town Hall, Manchester, 2. Tenders by May 16.

***Marlborough and Ramsbury, Wilts.**—Great Bedwyn drainage, contract 5, for R.D.C. Deposit £10. Tenders by June 3.

***Northampton.**—Construction of surface water sewers (amended advertisement), for B.C. Deposit £2 2s. Tenders by May 28.

***Plymouth.**—Supply pipes, etc., for City Council. Tenders by May 21.

***Poole, Dorset.**—Canford and Merley sewerage scheme, contract 6, for B.C. Deposit £10 10s. Tenders by June 14.

***Radcliffe, Lancs.**—Construction of surface water sewer, Turks Road area, for B.C., consisting of approx. 725 lin. yd. of 21 in. to 33 in. dia. concrete pipe, together with nine precast concrete manholes and ancillary works. Documents from the Borough Engineer, Town Hall, Radcliffe. Deposit £3, cheques payable to Corporation. Tenders by June 8.

***Ross and Cromarty.**—Construction of approx. 1,300 yd. of 6 in. sewers, together with septic tank, manholes and all relative works, at Inver in the Parish of Tain, for C.C. Documents from the County Water Engineer, Burn Place, Dingwall. Arrangements have been made for showing intending offerers the site of the works on May 11 at 11 a.m., and contractors wishing to take advantage of these arrangements should notify the County Water Engineer in advance. Tenders by May 24.

***Ruthin, Denbighs.**—Craig-Fechan, contract SD4, for R.D.C. Deposit £10 10s. Tenders by May 30.

***St. Just, Corn.**—St. Just and Tregeseal sewerage, for U.D.C., including construction of about 3,700 yd. of 4 in. to 12 in. dia. pitch fibre and concrete sewers, a sewage pumping station and about 260 yd. of 3 in. dia. spun-iron rising main. Documents from Lemon and Blizard, consulting engineers, 1 Glenside, College Avenue, Mannamend, Plymouth. Deposit £3 3s., cheque payable to U.D.C. Tenders by June 11.

***South Westmorland.**—Construction of about 900 yd. of 6 in. sewers and a small sewage disposal works at Grayrigg, near Kendal, for R.D.C. Documents from the Engineer, Stricklandgate House, Kendal. Deposit £3 3s. Tenders by May 23.

***Sowerby Bridge, Yorks.**—Wilmur Mount surface water sewer, for U.D.C., including the construction of approx. 66 yd. of 12 in. dia. sewer, 30 yd. of 12 in. dia. steel sewer, four manholes and appurtenant works. Documents from the Engineer and Surveyor's Office, Beech Road, Beech Road, Sowerby Bridge. Deposit £2. Tenders by May 16.

***Teifiside, Carm.**—Sewers at Parclyn housing estate, for R.D.C. Apply by May 18.

***Valley, Anglesey.**—Two schemes of sewerage and sewage treatment works, both of which are within four miles of Valley Station, British Railways (L.M. Region), for R.D.C. The employment of a proportion of local labour from Anglesey will be a condition of each of the contracts: (1) Llanfachraeth, contract 1—comprising the laying of approximately 1,850 lin. yd. of 6 in. diameter stoneware pipe sewers, together with precast concrete manholes, 250 lin. yd. of 4 in. diameter spun-iron pipe rising main, and the construction of a sewage pumping station and sewage treatment work, comprising settlement tanks, bacterial filter, humus tank and sludge pumping station, sludge drying beds, and other incidental works at Llanfachraeth; (2) Caergeiliog, contract 1, comprising the laying of approximately 1,950 lin. yd. of 6 in. diameter stoneware and spun-iron pipe sewers, together with precast concrete manholes, 1,650 lin. yd. of 4 in. diameter spun-iron pipe rising main, and the construction of a sewage pumping station and incidental work at Caergeiliog, situate on the A5 trunk road. Applications, in writing, to Richards and Dumbleton, consulting engineers, Cornwall Buildings, 45 Newhall Street, Birmingham, 3. Deposit £3 each (cheques payable to R.D.C.). Plans also seen at the Council Offices, Valley. Tenders by May 21.

STREET LIGHTING

***Aldridge, Staffs.**—Street lighting, for U.D.C. Deposit £2 2s. Tenders by June 10.

***Bentley, Essex.**—Installation of 14 miles of group A street lighting at Rayleigh Road, Thundersley, and 4-mile group B street lighting at High Street, Hadleigh, for U.D.C. Applications to the Engineer and Surveyor, Council Offices, Thundersley, by May 9. Deposit £1.

***Cheltenham, Glos.**—Supply and erection of group A and group B lighting installations in various streets, for B.C.: (Bill 1) Supply only of 69 85/140-W sodium lanterns, eight 400-W colour corrected mercury lanterns, and 71 45/60-W sodium lanterns, complete with all ancillary gear; (2) supply and erection of approximately 134 fluted steel columns

together with the fitting and wiring of lighting equipment. Documents from G. Gould Marsland, borough surveyor, Municipal Offices, Cheltenham. Deposit £3 3s. Tenders by May 23.

***Ellesmere Port, Ches.**—Thirty-three group A street lamps, contract 298, for B.C. Tenders by May 19.

***Ipswich, Suffolk.**—Improved street lighting, for B.C. Deposit £1 1s. Tenders by May 23.

***Leighton Buzzard, Beds.**—Following, for U.D.C.: Erection of 62 group A Stanton columns, complete with lanterns and control gear of A.E.I. Lamp and Lighting Co., Ltd., manufacture, on A.418, and the removal of 40 group B columns and re-erection on various district roads throughout the town, with new lanterns only of A.E.I. Lamp and Lighting Co., Ltd., manufacture. Documents from the Engineer and Surveyor, Council Offices, North Street, Leighton Buzzard. Deposit £2 2s. Tenders by May 11.

***Letchworth, Herts.**—Street lighting improvements, 1960-61, for U.D.C. Deposit £2 2s. Tenders by May 20.

***Littleborough, Lancs.**—Supply and bringing into operation of 18 concrete group A lighting column together with 85-W sodium discharge lanterns, lamps, vacuum jackets, and auxiliary gear, for U.D.C. Documents from the office of D. W. Allison, engineer and surveyor, Council Offices, Littleborough. Tenders by May 30.

***Tyldesley, Lancs.**—Supply and erection of 52 class B and two class A sodium lamps with concrete columns, for U.D.C. Documents from the Engineer and Surveyor, P.O. Box 7, Town Hall, Tyldesley. Deposit £1 1s. Tenders by May 14.

INTERNATIONAL CONTRACT

***Colombia.**—It is expected that during the second half of 1960 the Corporacion Autonoma Regional Del Cauca Cali, will request bids from a selected list of prequalified contractors for the construction of the Calima hydro-electric project, near Cali. The project will include rockfill dam with a maximum height of about 100 metres and a volume of about 2,000,000 cu. metres; an 120,000-kW. underground powerhouse with a vertical access shaft about 230 metres deep and an inclined access tunnel about 700 metres long; a morning glory spillway; a power intake and gate shaft, a power tunnel and inclined penstock shaft; a tailrace tunnel about 1,630 metres long; a diversion tunnel 660 metres long; a tributary diversion tunnel 7 kilometres long; and appurtenant works. Interested firms that have satisfactorily performed comparable work should apply promptly for prequalification forms to the Corporacion, Apartado Aereo 2,366, Cali, Colombia. Completed prequalification forms will be required no later than July 15, 1960. Bids will be received from prequalified bidders only.

AWARDS

BUILDING AND DECORATING (See also Housing Schemes)

***Accrington, Lancs.**—Provision of fish market, central area redevelopment, for B.C.: Nor-Pave, Whalley Road Works, Altham West, Accrington, £14,495 (recommended, subject to Ministry approval).

***Arbroath, Angus.**—Construction of reinforced concrete frame and floors for bank and office premises at Brothock Bridge, for National Commercial Bank of Scotland, Ltd., 42 St. Andrew Square, Edinburgh, 2; Concrete (Scotland), Ltd., 15 Elmbank, Street, Glasgow, C.2.

***Barking, Essex.**—Following works, for B.C.: Supply and fixing of five shop fronts at Chelmer Crescent shops—A. K. Hubbard, Ltd., Cripps Yard, Cathall Road, E.11, £1,373; (a) foundation works and (b) construction of hall at Thames View estate—(a) West Piling and Construction Co., Ltd., Columbia House, Aldwych, London, W.C.2, £3,581, (b) Hawker-Smith, Ltd., West Street, Erith, Kent, £8,696 (recommended).

***Belfast.**—Following, for City Council. J. H. Swann, city architect: (a) Construction of new laundry block at Williamson House, 446-448 Antrim Road; (b) repairs to mosaic and wood block floors at Oldpark Road Branch Library—(a) Thomas Anderson, 8 Cliftondene Crescent, Belfast; (b) Belfast Terrazzo Co., 12 Ravenhill Road, Belfast, 6; (a) Building work, and (b) heating installation in connection with the conversion of Derwent House, Lisburn Road, into a branch library—(a) W. and J. Smyth and Sons, 94 Locksley Park, Belfast; (b) Croft

Engineering Co., Ltd., 93 High Street, Belfast.

Birmingham.—Following works, for the Regional Hospital Board: Builders' work in connection with heating installation in nurses' home and alterations to form sterilising unit at Little Bromwich General Hospital—J. Bowen and Sons, Ltd., 27 George Street, Calthorpe, Birmingham, 12, £1,213 and £1,222, respectively; provision of nurses' accommodation at Rubery Hill Hospital—J. and A. Brazier, Ltd., Birmingham, £49,713; adaptations to various departments at the Accident Hospital—J. Bowen and Sons, Ltd., £1,340; provision and laying of new floor covering in ward R2, and interior decorations to wards S1, S2, R2, etc., at Summerfield Hospital—Limmer and Trinidad Lake Asphalt Co. Trinidad House, Coventry Street, Birmingham, 5, £1,356, and Sargent Bros. (Builders and Decorators), Ltd., 23 Gerrard Street, Birmingham, £1,298, respectively; interior decorations to ward blocks B, C, E and F, and engineer's bungalow at Marston Green Maternity Hospital—Whiteman, Decorations, Ltd., 179 Gravelly Lane, Erdington, Birmingham, 23, £1,783; redecoration of ground floor, first floor, etc., at Dudley Road Hospital—Sargent Bros. (Builders and Decorators), Ltd., £2,662 (recommended).

Bognor Regis, Sussex.—Erection of a brick-built deck chair store and workshop (2,900 super. ft. in area) in Shripney Road, for U.D.C.: Tribe Bros. (Bognor Regis), Ltd., South Bersted Street, Bognor Regis.

Brentford and Chiswick, Middx.—Following works, for B.C.: Repairs to 32 dwellings at Station Gardens, Chiswick—H. J. Whitman and Sons, Ltd., 277-279 Chiswick High Road, London, W.4, £1,161 (recommended); Arthur Knapp, Ltd., £1,651; George Jackson, £1,074; Marcham and Son, £1,360; Ferris Bros., £1,220.

Repairs to 24 dwellings at Sidney Gardens, Brentford: George Jackson, 4 Wilmington Avenue, London, W.4, £736 (recommended); Marcham and Son, £921.

Repair and conversion of 47 Thornton Avenue, Chiswick: George Moss and Sons, Ltd., Cranleigh Wharf, Lady Margaret Road, Southall, £2,589 (recommended); William H. Figgis, £3,640; W. J. Dickens, Ltd. (Ealing), £3,890; Kelly Builders, Ltd., £4,189.

Repair and conversion of 14 Foster Road, Chiswick: George Moss and Sons, Ltd., Cranleigh Wharf, Lady Margaret Road, Southall, £3,462 (recommended); Arthur Knapp, Ltd., £3,698; H. J. Whitman and Sons, £3,916; V. H. Read and Co., £3,503; William Lay and Co., £3,688; Roger Miller and Co., Ltd., £4,100.

Repair and conversion of 1 and 13 Somerset Road, Brentford: G. W. Gillam and Sons, 414 High Road, Harrow Weald, £2,458 and £2,656, respectively (recommended); Roger Miller and Co., Ltd., £3,895 and £3,604; T. Peyton and Son, Ltd., £3,760 and £3,128; Decor (Richmond), Ltd., £3,057 and £3,084.

Bromsgrove, Worcs.—Conversion of medical superintendent's house into offices, record stores and living accommodation for medical officers and deputy matron at All Saints' Hospital, for the Birmingham Regional Hospital Board: C. Green and Sons, Ltd., 132 Monument Road, Edgbaston, Birmingham, 16, £9,980 (recommended).

Chester.—Erection of a shop, two kiosks and a flat at George Street, adjoining the proposed Delamere Street bus station, for City Council: A. Halliwell and Son (Chester), Ltd., Carr Mill, Mill Lane, Upton, Chester, £7,558 (recommended).

Coventry.—Painting and decorating work at the following hospitals, for the Birmingham Regional Hospital Board: Whitley: W. H. Jones and Son, Ltd., Lockhurst Lane, Coventry, £1,147; High View: G. W. Deeley, Ltd., Torrington Avenue, Coventry, £1,549; Coventry and Warwickshire, Stoney Stanton Road and Keresley Branch and Gulsom Hospital: R. Pountney, 109 Evenlode Crescent, Coventry, £2,966, £1,425 and £2,155, respectively (recommended).

Cumberland.—Construction of a second primary separation plant at Windscale Works, Sellafield, Cumb., for U.K.A.E.A. The contract covers the main civil engineering and building works for the separation plant: Mitchell Construction Co., Ltd., Peterborough and London.

Ealing, Middx.—Following works, for B.C.: Tenders received for erection of Northfields Branch Library—Wembley Construction, Ltd., £3,620; Alec. A. Shaw and Co., Ltd., £4,121; Cawood Wharton and Co., Ltd., £4,352; G. Holland and Sons, £4,505; Norman Sinclair, Ltd., £4,659; B. and B. Contractors, £4,688; Stirton Partners, Ltd., £4,714; White and Thomas, £5,050.

Reconstruction of Brentfield School.—Sherwood Brothers (Agri Service), Ltd., £5,292; improvement of science accommodation at Coston Secondary Girls' School—Hillingdon Decorators, Ltd., 44 Mountfield Road, London, W.5, £3,191; erection of school meals serveries at Horsenden Junior and Infants' Schools—G. Moss and Sons, Ltd., Dorchester Road, Northolt Park, Greenford, £4,777; erection of school meals serveries at Perivale Junior and Infants' Schools—Bristow and Darlington, Ltd., 80 Chamberlayne Road, London, N.W.10, £2,896; provision of chemistry laboratory at Stanhope Secondary Boys' School—B. and B. (Contractors), Ltd., £2,113; erection of boundary walls to houses at Northolt Park estate—J. Tarpey and Son, Ltd., Enfield, £10,148 (recommended).

Edinburgh.—Erection of steelwork for seven-storey building in South St. Andrew Street and West Register Street, for National Commercial Bank of Scotland, Ltd., 42 St. Andrew Square, Edinburgh, 2; Redpath. Brown and Co., Ltd., Albion Road, Edinburgh. Alex. Pye, staff architect to National Commercial Bank of Scotland, Ltd.; Morham and Brothie, quantity surveyor, 29 Hanover Street; T. Harley Haddow and Partners, structural engineers, 29 Chester Street; and Mitchell Dey and Lackie, electrical engineers, 34 Castle Street, Edinburgh.

Edmonton, Middx.—Erection of a five-storey office block, for British Oxygen Engineering, Ltd., Bridgewater House, Cleveland Row, St. James's London, S.W.1: Kyle. Stewart (Contractors), Ltd., Ardshiel House, Empire Way, Wembley, Middx. Estimated cost £150,000. Michael Blampied and Partners, architects, Museum Mansions, 63a Great Russell Street, W.C.1; Horace Lissenden and Partners, quantity surveyors, 12 Grafton Street, W.1.

Enfield, Middx.—Erection of changing rooms and aged persons' pavilion at Durants Park, for B.C.: Townsend and Collins, Ltd., 129 Goat Lane, Enfield, £6,776 (recommended); H. Almond and Co., £7,072; G. S. Garey and Sons, Ltd., £6,834; Morris and Son (Builders), Ltd., £6,965.

Exeter.—Supply of seven shelters in cedar wood and glazing for use by car park attendants, for City Council: Woodley's Joinery Works, Newton Poppleford, Colaton Raleigh, Sidmouth, Devon, £1,288 (recommended).

Glasgow.—Construction of foundations for new biochemistry block at the University: Crowley Russell and Co., Ltd., 16 Blythswood Square, Glasgow. Estimated cost £300,000. Keppie, Henderson and Partners, architects, 21 Woodside Place, C.3; Dansken and Purdie, quantity surveyors, 241 West George Street, C.2; Geo. Davie Crawford and Partners, structural engineers, 26 Woodside Place, C.3; Ramsay and Primrose, heating, ventilating and electrical engineers, 18 Lynedoch Street, C.3. The main contract has not been let.

Guildford, Surrey.—Erection of (a) shop, trade counter and showrooms at the corner of Onslow Street and Woodbridge Road, and (b) showrooms, etc., at Woodbridge Road, for Ansel, Son and Gray, Ltd.: Bostock and Wilkins, architects, 19 Quarry Street, Guildford: (a) Tribe and Robinson, Ltd., Onslow Street, and (b) H. Ashenden, Ltd., Walnut Tree Close, Guildford.

Gosforth, Northumb.—Erection of 35 lock-up garages at Craster Square, for U.D.C.: Direct Labour, £5,950.

Havant and Waterloo, Hants.—Supply and erection at the town hall, Havant, of approx. 6,000 sq. ft. of prefabricated single-storey office accommodation, with ancillary works thereto, for U.D.C.: R. R. Hole, engineer and surveyor: J. E. Lessor and Sons, Ltd., Green Lane, Hounslow, Middx.

Heston and Isleworth, Middx.—Erection of site office and 10 garages at Cranford Lane housing estate, for B.C.: H. Beasley and Sons, 113 High Street, Staines, Middx., £4,496 (recommended, subject to Ministry approval).

High Wycombe, Bucks.—External painting of houses at the Bowerden and Micklefield estates, for B.C.: (Section 1) 68—E. K. Stacey, £1,122; (2) 70—D. S. Newell, £1,137; (3) 74—E. L. Taylor and S. B. Lee, £1,258; (4) 44—A. Kozak, £616; (6) 42—M. Goodchild, £735; (7) 42—E. L. Taylor and S. B. Lee, £714; (8) 56—E. Devers, £952 (recommended).

Horsforth, Yorks.—External painting of 235 houses and flats and 11 lock-up garages, for U.D.C.: J. Marsden engineer and surveyor: J. W. Grunwell, 41 Beech Road, Odsal, Bradford, 6; J. Ibbotson, Ltd., 219 Bentley Road, Doncaster; S. Barker, 1 Bank Gardens, Horsforth.

Ilford, Essex.—Following works, for B.C.: Construction of shops and offices at Ilford

Lane redevelopment—Richard Costain, Ltd., 111 Westminster Bridge Road, London, S.E.1, £77,634; supply and erection of greenhouse, complete with staging and heating pipes at Valentines Park—V. and N. Hartley, Ltd., Greenfield, Oldham, Lancs., £2,123 (recommended).

Ilkeston, Derbys.—External painting of the following dwellings, for B.C.: One hundred and three at Cotmanhay estate—Jones and Hinton, Ltd., Beeston, Nottingham, £875; 256 at Green Lane estate—Wadsworth Painters and Decorators (Nottingham), Ltd., 28 Newstead Grove, Nottingham, £2,368; 193 at Kirk Hallam estate—Brentmail and Scott, Nottingham, £1,428 (recommended).

Kidderminster, Worcs.—Erection of warehouse and office accommodation, for Lawrence Edwards and Co. (Engineers), Ltd. J. C. T. Cole and Partners, architects, Central Buildings, Long Lane, Blackheath, Birmingham: Lacy Bros., Ltd., Adam Street, Kidderminster. Estimated cost £8,200. Work about to commence.

Kirkcaldy, Fife.—Alterations and additions to Sauchenbush Community Centre, for B.C.: Frank Walker, Elgin Street, Kirkcaldy, £2,937.

Lambeth.—Improvements and conversion to various properties, as follows, for B.C.: 11 Alderton Road and 16 Finsen Road—Direct Labour, £3,091; 4 Geneva Terrace, 18, 20 and 22 Mervyn Road, 71 Nursery Road—W. Hart, Ltd., 72 Blenheim Gardens, S.W.2, £10,464; 7 Ferndale Road, 50 Hemberton Road and 12 St. Martin's Road—Direct Labour, £8,555; 4 Maley Avenue and 2 Ashurst Gardens—F. and G. Harris, 136 Lambeth Road, S.E.1, £2,260 and £2,196 (negotiated tender); 25 Editha Street—H. T. Oliver and Sons, Ltd., 371 Clapham Road, S.W.9, £2,236 (negotiated tender). All recommended.

Lancaster.—Upgrading of a three-storey sanitary annexe to wards E. H and upper H at Lancaster Moor Hospital, for Management Committee: Direct Labour. Estimated cost £12,328.

Lurgan, Armagh.—Erection of a factory at Robert Street, Lurgan, for Ministry of Commerce: H. and J. Martin, Ltd., 163 Ormeau Road, Belfast, 7.

Leek, Staffs.—Repairs to floors of wards 2 and 3 at St. Edward's Hospital, Cheddleton, for the Birmingham Regional Hospital Board: Cousens and Allport, Ltd., Moorland Road, Burslem, Stoke-on-Trent, £1,597 (recommended).

Lewes, Sussex.—Construction of an office block, clothing store, toilets and new terraces, together with incidental works in connection therewith, for B.C.: F. A. Murphy, engineer and surveyor: Cox (Public Works), Ltd., 5 Duke Street, Brighton, Sussex, £5,314. Work commenced.

London.—Demolition of building and erection of office block at Cophall Avenue, E.C.2, for Cophall Building, Ltd.: Wates Ltd., 1258 London Road, London, S.W.16. Trehearne and Norman Preston and Partners, architects, 83 Kingsway, W.C.2: W. V. Zinn and Associates, consulting engineers, London, W.C.1.

Maltby, Yorks.—Extension to factory, for D. Byford and Co., Ltd., Bryan and Harding, architects, 8 New Street, Leicester; Stimpson and Rollston, Wigston, Leicester, £28,867. Work commenced.

Manchester.—Sub-structure for office block in Mosley Street, for Williams Deacons Bank, Ltd. Harry S. Fairhurst and Son, architects, Chancery Chambers, 55 Brown Street, Manchester, 2; Leonard Fairclough, Ltd., 3 Chapel Street, Adlington. Work commenced.

Manchester.—Improvements to sanitary accommodation, installation of bedlift, D block (male) at Springfield Hospital, for Regional Hospital Board: Wm. Gornall and Sons, Ltd., Ellesmere Street, Bolton, £17,102 (recommended).

Mansfield, Notts.—Following works, for B.C.: Erection of a branch library at Ladybrook estate—Direct Labour, £7,218; extensions to public library—J. W. Richards and Co., Matlock Mill, Sheepbridge Lane, Mansfield, £3,996 (recommended).

Newcastle upon Tyne.—Erection of new headquarters of about 60,000 sq. ft. at Etherstone Avenue, Cochrane Park, for Charles G. S. Buist, Ltd., Cackett, Burns Dick and Mackellar, architects, 21 Ellison Place, Newcastle: Stanley Miller, Ltd., 17 North Street, Newcastle upon Tyne.

Nuneaton, War.—Painting and decorating at Manor and George Eliot Hospitals, for the Birmingham Regional Hospital Board: H. W. Jones and Son, Ltd., Lockhurst Lane, Coventry £1,191, and R. Pountney, 109 Evenlode Crescent, Coventry, £2,390, respectively (recommended).

Oldbury, Worcs.—Erection of a two-storey laboratory block at Oldbury Grammar School, Moat Road, for B.C.: Wm. Jackson Langley Green, Ltd., Langley Road, Langley Green, Oldbury, £18,687. Work commenced.

Oxford.—Following works, for City Council: External painting of the Town Hall and municipal office block, including the Central Library: Woolbridge and Simpson, Ltd., Frenchay Road, Oxford, £3,732; alterations and adaptations to provide a hostel for working boys at 258 Ifley Road—Benfield and Loxley, Ltd., 106 Bullingdon Road, Oxford, £2,948; pavilion at Banbury Road North Sports Ground—A. J. Sadler and Co., Ltd., Vicarage Farm Cottage, Chesterton, Bicester, Oxon, £6,279 (recommended). Additional extension at Windmill House—C. B. Hathaway and Son, Ltd., Station Road, Wheatley, Oxford, £1,037 (recommended, extension of contract).

Portland, Dorset.—Twenty-two precast concrete garages on the Verne Common housing estate, for U.D.C. Eric B. Cullin, engineer and surveyor: Marley Concrete, Ltd., Poole, Dorset, £1,976 (accepted, subject to Ministry approval); Bath and Portland Stone Firms, Ltd., £2,440 (site works not included); Bathcrete, Ltd., £2,048; Bell and Webster, Ltd., £3,167; Portable Concrete Buildings, Ltd., £2,058; Woolaway Construction, Ltd., £1,505 (site works not included).

Portsmouth.—Extension to factory at Fitzherbert Road, Farlington, for Dragonair, Ltd. Bailey and Piper, architects, Fareham: Payne Bros. (Farlington), Ltd., Fitzherbert Road, Farlington, Portsmouth. Estimated cost £6,000.

Prestwich, Ayr.—Erection of new control tower and fire station at the airport, for Ministry of Aviation. J. L. Gleave, architect, 10 Lynedoch Crescent, Glasgow, C.3: W. and J. R. Watson, Ltd., 43 Station Road, Edinburgh, 12.

Romford, Essex.—Following works, for B.C.: Design and construction of an elevated car park at rear of Havana Close—Truscon, Ltd., 35 Lower Marsh, London, S.E.1 (recommended). Estimated cost £60,000.

Supply and erection of greenhouses at Bedford Park—Robert H. Hall, £985; extension to the Town Hall—Carlton Contractors, Ltd., Carlton House, Ashley Road, Epsom, Surrey, £34,803 (recommended).

Rugby, War.—Painting and decorating at the Hospital of St. Cross and St. Luke's Hospital, for Birmingham Regional Hospital Board: Foster and Dicksee, Ltd., James Street, Rugby, £1,227 and £1,219 (recommended).

Shrewsbury, Salop.—(a) Provision of nurses' training school, and (b) adaptations to provide nurses' training school at Copthorne Hospital, for Birmingham Regional Hospital Board: (a) H. J. Emery, Ltd., £6,225, and (b) M. A. Boswell (Contractors), Ltd., Wolverhampton, £6,499 (recommended).

Skelmersdale, Lancs.—Erection of branch library, for Co. E.C. W. J. Bickerstaff and Sons, Ltd., Seven Stars Bridge, Wigan, £16,098 (recommended).

Southampton.—Following works, for B.C.: Erection of store extension at Ludlow Road Junior Boys' School—B. E. Faulkner, Owls Meet, Church Hill, Southampton, £516 (recommended); R. H. and A. W. J. Hinton, £579; L. S. Tuffin, £624; G. S. Hallum and Sons, £628.

Construction of kitchen and dining room at Woolston Secondary School: A. S. Stride, £13,694 (recommended); John Lewis Building, Ltd., £13,972; H. Stevens and Co., Ltd., £14,568.

Extensions (three additional classrooms, administrative rooms, etc.) at Weston Park Infants' School: E. H. Burgess, Ltd., Curtiss Yard, Augustine Road, Southampton, £23,718 (recommended); H. G. Ross and Sons, Ltd., £23,847; A. S. Stride, £24,200; H. Stevens and Co., Ltd., £24,220.

Conversion of two classrooms into housecraft room and other alterations at Mount Pleasant Secondary Girls' School: Mullen and Lumsden, Ltd., 151 Ramsey Road, Shirley, Southampton, £5,475 (recommended); H. Stevens and Co., Ltd., £5,697; H. G. Ross and Sons, Ltd., £5,730.

Erection of school meals sculleries at Shirley Primary Schools: Mullen and Lumsden, Ltd., £2,536 (recommended); A. S. Stride, £2,557; H. Stevens and Co., Ltd., £2,732; John Lewis Building, Ltd., £2,825; L. S. Tuffin, £2,995.

Erection of screen wall and construction of cement store and loading platform at Chapel Wharf depot: W. and R. Whittington, 38 Shirley Avenue, Southampton, £772 and £2,735, respectively; redecoration of men's

changing cubicles and kitchen and minor repairs at the baths—L. S. Tuffin, £2,077 (recommended).

Conversion of 19 Winn Road: G. E. Prince and Son, Ltd., 24 Chapel Road, Southampton, £32,928 (recommended, subject to Ministry approval).

External redecoration: one dwelling, Town, 28 dwellings Town—G. S. Hallum and Sons, Ltd., 9 Carlton Crescent, Southampton, £1,516 and £1,035, respectively; 67, Town—John Lewis Building, Ltd., 41 Portland Terrace, Southampton, £1,560; 113, Swaythling, 192, Rowhams, 36, Shirley, 109, Maybush—H. E. Easterby, 49 St. Annes Road, Woolston, Southampton, £2,457, £4,368, £522 and £4,267, respectively; 203, Swaythling, 125, Freshfield, 156, Woolston, 113, Sholing—W. and R. Whittington, 38 Shirley Avenue, Southampton, £4,280, £2,607, £3,368 and £2,198, respectively; 44, Thornhill, 34, Swaythling, 112, Millbrook, 20, Millbrook—A. E. Jukes and Son, Ltd., 40/60 King Georges Avenue, Southampton, £556, £577, £1,245 and £332, respectively (recommended).

South Shields, Dur.—Following, for E.C.: Erection of new Biddick Hall Infants' School. J. Smeds, architect, 56a Camden Street, North Shields: Gordon Durham and Co., Moor Lane, East Boldon, Co. Durham, £61,318.

Erection of Marine and Technical College (third instalment). Meade Taylor and Wilson, architects, 33 Lansdowne Road, London, W.11: Richard Costa, Ltd., 16 Great North Road, Newcastle upon Tyne, £358,512.

Stafford.—Reconditioning of bathrooms, etc., and interior decoration of wards at St. George's Hospital, for the Birmingham Regional Hospital Board: D. E. Heald (Stoke-on-Trent), Ltd., North Street, Cobridge, Stoke-on-Trent, £1,645, and T. Masey and Sons, 415 Werrington Road, Bucknell, Stoke-on-Trent, £2,742 (recommended).

Sunderland, Dur.—First stage of the Technical College extension in the South Johnson Street area, for B.C.: Direct Labour, £661,600 (recommended).

Sunderland, Dur.—Erection of public-house at Ashdown Road, for Flowers Breweries (Northern), Ltd., 176 High Street: James R. Rutherford and Sons, Ltd., Jesmond Road, Newcastle upon Tyne. Work commenced.

Thornbury, Glos.—Building of a new Council chamber and offices and for the carrying out of alterations to existing premises. Stokefield House, for R.D.C. Rainger, Rogers and Smithson, architects, Glenmore Lodge, Wellington Square, Cheltenham: H. W. Tily and Son, Ltd., 54 Winchcombe Street, Cheltenham.

Tynemouth, Northumb.—Building work for engineering services at Preston Hospital. North Shields, for Newcastle Regional Hospital Board: F. P. Dodesworth, Hillheads Road, Whitley Bay, £5,457.

Walthamstow, Essex.—Following works, for B.C.: One shop and one house at corner of Blackhorse Lane and Goldsmith Road—R. Williamson (Builders), Ltd., 305 Romford Road, E.7, £3,690; remodelling of toilets at (a) Higham Hill Primary Schools, (b) Markhouse Infants' School, and (c) Mission Grove Schools—(a) Direct Labour, £2,906, (b) S. Newlyn and Son, Ltd., Church Road, London, E.12, £2,343; (c) G. A. Fairhead, 14 Melville Road, London, E.17, £10,928; construction of an annexe at Wm. McGuffie Secondary School—P. G. Evans and Son, Ltd., 361 Higham Hill Road, London, E.17, £9,600; renovations at Greenleaf Junior and Infants' Schools (second stage)—Stoney and Co., Ltd., 258 Green Lane, Ilford; remodelling of kitchen at Woodford County High School for Girls—G. A. Fairhead, £1,595 (all recommended).

Wandsworth.—Redevelopment of an area of the rear of Wandsworth High Street, at Buckhold Road, comprising nine industrial estates, for Buckhold Investment, Ltd. Austin Vernon and Partners, architects, 5 Buckingham Place, S.W.1: Wates, Ltd., 1258 London Road, London, S.W.16.

Wanstead and Woodford, Essex.—External decorations to housing units in 1960-61, as follows, for B.C. (Contracts a, b and c) 174 dwellings—Turnbull and Sons (Builders), Ltd., 9 Northumberland Alley, London, E.C.3, £1,208, £902 and £542, respectively; (d) 44 dwellings—Jenners (Builders), Ltd., High Road, Woodford Bridge, Woodford Green, Essex, £774 (recommended).

Wantage, Berks.—Following external painting and colour-washing of Council houses, for R.D.C.: Eight at Aldworth, four at Beeton, 14 at Hampstead Norris, and two at Pease-more—C. J. Burgess and Sons, Laurel Cottage, Hermitage, Newbury, £629; 19 at

Blewbury, and 19 at Compton—D. R. Norris, 19 Westcote Road, Reading, £826.

West Bromwich, Staffs.—Erection of factory and offices at Roebuck Street, for Turner Tools and Engineering Co., Ltd., Simms and Gifford, architects, 323 High Street: Rawlins and Westwood. Estimated cost £7,000. (Work about to commence).

West Hartlepool, Dur.—Construction of rent offices at Wynyard Road and at Owton Manor Lane, for B.C.: T. M. Stonehouse, Ltd., Osborne Road, West Hartlepool.

Wigan, Lancs.—Erection of ambulance station, for B.C.: Direct Labour, £21,216.

Worcester.—Renovation and modernisation of female ward 1 and female dormitory 7 at Powick Hospital, for the Birmingham Regional Hospital Board: T. Oliver (Builder), Ltd., Worcester, £5,152 (recommended).

Worthing, Sussex.—Alterations at the Hill Barn golf clubhouse, for B.C.: B. Cheal and Sons, Ltd., 17 Buckingham Road, Worthing, £8,749 (recommended).

DEMOLITION

Baldon, Yorks.—Demolition in Towngate, for U.D.C.: Ibmac, Ltd., 36 Sunbridge Road, Bradford.

Chester.—Demolition of 17 houses at Trafford Street, bakery at Princess Street, and air raid shelter at Brassy Street, for City Council: D. Ward (Demolition) Co., Ltd., Blackpool, £238, £120 and £25, respectively (recommended).

Enfield, Middx.—Demolition of 1 and 2 Elizabeth Cottages, Hoe Lane, for B.C.: G. H. Bristow, 2 Leda Avenue, Enfield, £14 (recommended); Langton Bros., £20; F. G. Della, £25; Pardix Plant Engineers, Ltd., £45; Highfield Demolition Co., Ltd., £58; Frank Valori, Ltd., £75.

Heston and Isleworth, Middx.—Demolition of 125, 127 and 129 High Street, Cranford, and 409 Cranford Lane, for B.C.: Frank Valori, Ltd., 34 Christchurch Road, London, S.W.2, £69 (recommended); L. Perlin, Ltd., £124; Willment Bros., Ltd., £165; London Demolition Co., Ltd., £169.

Stoke-on-Trent, Staffs.—Demolition of the following houses, for City Council: Six at Westhead Street, Shelton, contract 228, and two at Fenpark Road, Fenton, contract 231—Potteries Demolition Co., Ltd., 143 Etruria Road, Stoke-on-Trent, £96 and £29, respectively; five at Headley Terrace, Burslem, contract 232—G. Baskerville, Martin Street, Cobridge, Stoke-on-Trent, £100; four at America Street, Tunstall, contract 223—Borough Demolitions, £56 (recommended).

Walthamstow, Essex.—Demolition of Civil Defence buildings at Higham Hill Schools, for B.C.: O'Connor Bros., Ilford, £876 (recommended).

ELECTRICAL

Barrow-in-Furness, Lancs.—Electrical works associated with scheme for provision of a new twin operating theatre unit at North Lonsdale Hospital, for Manchester Regional Hospital Board: North Western Electricity Board, £7,340 (recommended).

Bromsgrove, Worcs.—Provision and installation of passenger lift in connection with the conversion of the medical superintendent's house, All Saints' Hospital, for the Birmingham Regional Hospital Board: Marryat and Scott, Ltd., 41 Water Street, Birmingham, £3,000 (recommended).

Doncaster, Yorks.—Three 4,800,000 gallons per hour natural draught cooling towers to be erected at Thorpe Marsh Power Station, near Doncaster, for C.E.G.B.: Film Cooling Towers, (1925), Ltd., Chancery House, Parkshot, Richmond, Surrey. Estimated cost £600,000.

Kingston-upon-Thames, Surrey.—Electrical services at Technical College, for C.C.: Alpha Manufacturing and Electrical Co., Ltd., 21 Cedars Road, Clapham, London, S.W.4, £26,431.

Leek, Staffs.—Electrical re-wiring programme, phase 6, St. Edward's Hospital, Cheddleton, for the Birmingham Regional Hospital Board: E. Holloway, Ltd., 18 Hartshill Road, Stoke-on-Trent, £4,930 (recommended).

Sal, Ches.—Installation of bedlift and associated works at Sale and Brooklands War Memorial Hospital, for Manchester Regional Hospital Board: Septimus Taylor and Co., Ltd., Greenwood Street, Oldham, £9,144 (recommended).

Stoke-on-Trent, Staffs.—Electrical installation in the old people's home at Blurton estate, for City Council: Speed Electric Service (Stoke-on-Trent), Ltd., 26 Hillechurch Street, Hanley, Stoke-on-Trent, £7,482 (recommended).

Willesden, Middx.—Conversion of manually operated lift to electrical operation at

Stonebridge School, for B.C.: Hammond and Champness, Ltd., Haskins Works, Blackhorse Lane, London, E.17, £781 (recommended).

FENCING

Chigwell, Essex.—Re-fencing about 748 lin. yd. at various sites in the district with chain link fencing, for U.D.C.: Blakeney and Strange (Fencing), Ltd., St. Albans, £824.

Edmonton, Middx.—Fencing of the Goodwin Road area, for B.C.: Peerless Fence and Products, Ltd., Priory Avenue, Harefield, Uxbridge, £876 (recommended).

Southampton.—Erection of screen fence at Chapel Wharf Depot, for B.C. Matchless Fencing, Ltd., £829 (recommended).

GAS AND WATER SUPPLY

Broseley, Salop.—Supply and installation of new pump at Willey Park Pumping Station, Shirlett Sanatorium, for the Birmingham Regional Hospital Board: Scull Bros., Ltd., 31a Castle Street, Shrewsbury, £1,054 (recommended).

Kilkeel, Down.—Following works, for R.D.C. R. Ferguson and S. McIlveen, engineers, 15 College Gardens, Belfast: Contract 4A: Provision, laying and jointing of approximately 3,150 lin. yd. 3in. diameter class B spun-iron pipes, valves and specials at at Bryansford and Kilcoo. Tenders received: John McKay, Omagh, £5,914; Patrick Rooney, Warrenpoint, £6,293; J. Sinton, Tandaragee, £6,613.

Contract 4B: Provision, laying and jointing of approximately 3,900 lin. yd. 3in. diameter class C spun-iron pipes, valves and specials at Moneydarraghmore and Tullybrannigan. Tenders received: John McKay, Omagh, Tyrone, £6,550; John Newill, Ballymartin, Down, £7,123; Patrick Rooney, Warrenpoint, £7,461. Work about to commence.

Leek, Staffs.—Eastern parishes water supply scheme, section A, part 2, contract 7, for R.D.C., comprising the construction of an intake from the river manifold pumping station and water purification works, which include tanks in mass and reinforced concrete, sludge drying beds and a small sewage pumping station and treatment works, together with a water booster station on a separate site. Wilcox, Raikes and Marshall, consulting engineers, 33 Great Charles Street Birmingham: M. J. Gleeson (Contractors), Ltd., Sheffield, 8, £42,000.

Limavady, Derry.—Lackagh water scheme, for R.D.C., comprising construction of two pump-houses and two service reservoirs of 25,000 gallons and 2,500 gallons capacity, respectively. Munce and Kennedy, 133 University Street, Belfast, 7: John Rainey (Construction), Ltd., Portrush, Co. Antrim, £4,677.

Tynemouth, Northumb.—Construction of 9in. water main from Blackclose Bank to Newbiggin water tower, for the B.C.: Direct Labour, £8,500.

Wareham and Purbeck, Dorset.—Wool water supply and sewerage schemes (second stage), contract 31, for R.D.C., comprising (a) the provision and laying of about three miles of 6in., 4in. and 3in. diameter spun-iron water mains and about 1-mile of polythene tube as house connections; (b) the provision and laying of about four miles of 9in. and 6in. diameter concrete and stoneware sewers, stoneware laterals as required, one mile of 6in. diameter spun-iron rising main, and the construction of two sewage pumping stations, together with other incidental works, all at Wool: Southern Counties Construction Co., Ltd., 204 London Road, Waterloo, Portsmouth, £132,501.

HARBOURS, PIERS AND SEA DEFENCE WORKS

Worthing, Sussex.—Repairs to landing stage at the pier, for B.C.: Z. Peskett and Sons, Ltd., main contractors, Angmering, Rustington, Littlehampton (recommended). Estimated cost £1,200.

Supply of timber—Bensly and Co., Ltd., Borough Street, Brighton, 1, £740 (recommended).

HEATING AND VENTILATING

Barking, Essex.—Heating installation in new hall at Erkenwald Girls' School, for B.C.: J. T. Meredith and Co., Ltd., 6 Malt Street, London, S.E.1, £1,320 (recommended).

Belfast.—Following, for City Council. Donald A. Shanks, education architect: (1) Heating and ventilation installations; (2) plumbing installation at new Production Engineering and Metrology Laboratory, College of Technology, College Square East —(1) Everton Sheet metal Works, 52

Donegall Place, Belfast; (2) Pollock Greer and Gordon, Ltd., 1-3 King Street, Belfast. Work commencing July.

Renewal of existing low pressure hot water heating boiler at Carr's Glen Primary School, Oldpart Road—Shillington (Heating and Plumbing), Ltd., 55a Castle-reagh Place, Belfast. Work commencing July.

Installation of new low pressure hot water heating accesorator at Hillman Primary School, Upper Meadow Street—Lawthers, Ltd., 196 Shankill Road, Belfast. Work commencing June.

Durham.—Heating and domestic hot water installations at the new Newton Aycliffe Modern School, for C.C.: Selborne Engineering Co., Ltd., Selborne Gardens, New castle upon Tyne, £16,142.

Sedgefield, Dur.—Mechanical engineering services for alterations to form new kitchen at Winterton Hospital, for Newcastle Regional Hospital Board: Rowells (1924), Ltd., Byron Street, Newcastle upon Tyne, £9,496.

Worcester.—Provision of service ducts and sundry works in connection with installation of external and internal heating mains at Powick Hospital, for the Birmingham Regional Hospital Board: T. Oliver (Builder), Ltd., Worcester, £4,222 (recommended).

HOUSING SCHEMES

Barnes, Surrey.—One hundred and fourteen flats and 26 flats, Westfields housing scheme 2, for B.C.: A. J. Wait and Co., Ltd., Wellington Crescent, New Malden, £189,404 (recommended, subject to Ministry approval).

Basingstoke, Hants.—Seventy-two dwellings (32nd instalment) and 161 dwellings (33rd instalment) at South Ham housing estate, for B.C.: E. and J. Cotton, Ltd., High Street, Iver, Bucks, £126,392 and £237,116, respectively (recommended, subject to Ministry approval).

Bedford.—Two five-storey blocks, each containing 28 one-person bed-sitting rooms, nine one-bedroom two-person flats, and accommodation for a resident warden in the central redevelopment area, for B.C.: Robert Marriott, Ltd., Rushden, £119,980 (recommended, subject to Ministry approval).

Bollington, Ches.—Twenty-eight old people's bungalows at Ovenhouse Lane, for U.D.C.: Sparks and Yearsley (Contractors), Ltd., Congleton, £39,755.

Chester.—Eighty-two houses, 28 flats and 20 garages at Plas Newton estate, for City Council: Thomas Warrington and Sons, Ltd., 82 Station Road, Ellesmere Port, Ches., £148,070 (recommended).

Chester-le-Street, Dur.—One hundred and forty-six houses at Pelton, for R.D.C. F. Bowman, architect, Estate Office, Durham Road, Birtley: Direct Labour.

Daventry, Northants.—Six bungalows at Ashby Road, Braunston, for R.D.C. H. Bonsor, surveyor: Midland Builders, Ltd., Ashby Road, Daventry, £7,038 (accepted); Adkins and Cooper, Ltd., £7,372.

Dundee.—One hundred and fifty-two houses at Craigie housing scheme, for City Council: Charles Cray (Builders), Ltd., 4 Francis Street, £183,440.

Edinburgh.—Two hundred and thirty houses and 30 garages at Clermiston South housing estate, for City Council: Hart Bros., 29 Church Street, Tranent, East Lothian, £357,478.

Exeter.—Thirty-eight garages at Beacon Lane housing estate, for City Council: A. E. Gregory and Son, Rutherford Street, Heavitree, Exeter, £5,676 (recommended).

Harrogate, Yorks.—Five-storey block of 10 flats in Victoria Road: Wilkinson Building Co. (Leeds), Ltd., The Croft, Bramhope, Leeds. Work commenced.

Lambeth.—Fifty-two flats, 12 maisonnettes, a shop and 39 garages at stage 5 of Studley Road scheme, for B.C.: Pauling Construction, Ltd., 26 Victoria Street, London, S.W.1, £166,125 (recommended, subject to Ministry approval); J. Jarvis and Sons, Ltd., £166,221; Wilson Lovatt and Sons, Ltd., £172,022; Tersons, Ltd., £179,890; Wm. Moss and Sons, Ltd., £179,898; M. J. Gleeson (Contractors), Ltd., £180,975; Rowley Bros., Ltd., £182,300.

Leamington Spa, War.—Conversion of Ivy Cottage at Royal Midland Counties Home, into two flats for medical staff, for the Birmingham Regional Hospital Board: E. J. Burgess, Ltd., £1,475 (recommended).

Leeds.—One hundred and thirty dwellings at Queenshill, Stonegate Road, and 128 dwellings on the Swimmow estate, for City Council: M. B. Bell and Co., Frankland Terrace, Leeds, £354,262 (recommended).

Ormskirk, Lancs.—Sixteen houses, for U.D.C.: Berry and Hellowell, Ltd., Liverpool Road, North, Burscough, £22,790.

Romford, Essex.—Sixteen houses and two blocks of 24 flats at Queen Street and St. Andrew's Road, for B.C.: S. R. Bryett, Ltd., Grays Farm, Church Elm Lane, Dagenham, £73,173 (recommended).

Rushden, Northants.—Thirty-eight houses at Grafton Road site, for U.D.C. W. J. Anker, surveyor: F. and R. Windsor, Ltd., 42 Newton Road, Rushden, £59,282.

St. Helens, Lancs.—Erection of two-storey block of six flats on a site fronting on to Forest Road and Feeney Street, Sutton Manor, for B.C. M. Ward, borough engineer: Direct Labour.

Southall, Middx.—Thirty-four old persons' dwellings at Allenby Road, for B.C.: Francis Jackson (Contractors), Ltd., Glebe Avenue, Ickenham, Uxbridge, £48,215.

Southampton.—Seventy-three flats at Lansdowne Hill, contract B.341, for B.C.: Hawkins Bros. (Gosport), Ltd., Westfield Road, Gosport, £234,796 (recommended, subject to Ministry approval).

Surbiton, Surrey.—Twenty-nine dwellings at Middleton Estate (phase 3), for B.C.: Matthew James and Co., Ltd., £51,380 (recommended, subject to Ministry approval).

Truro, Corn.—Twenty-eight traditional dwellings at Malabar estate 10th section, for City Council. S. John O'Farrell, engineer and surveyor: E. Thomas and Co., Ltd., Kings' Avenue, Falmouth, £44,632 (accepted); G. E. Wallis and Sons, Ltd., £44,878; Fred Johns, £48,124. Work to commence May 23.

Whitehead, Antrim.—Seventy-two houses, a shop and garages at Islandmagee Road, for U.D.C.: Northern Ireland Housing Trust, 12 Hope Street, Belfast.

Woolwich.—Sixty-eight dwellings and 20 garages on Heavitree Road sites, for B.C.: Direct Labour, £154,602 (recommended).

MATERIALS AND SUPPLIES

Barking, Essex.—Supply of sanitary goods required for phase 4 of the Town Hall, for B.C.: W. N. Froy and Sons, Ltd., King Street, London, W.6 (recommended).

Edmonton, Middx.—Supply of the following for scheme at Provident Park (blocks G and H), for B.C.: Metal windows—Crittall Manufacturing Co., Ltd., 210 High Holborn, London, W.C.1, £802; sanitary fittings—Stitsons Sanitary Fittings, Ltd., 106 Victoria Street, London, S.W.1, £952; roof tiling—J. H. Sankey and Son, Ltd., Station Road, London, N.W.4, £726 (recommended).

Lowestoft, Suffolk.—Supply of timber for the south beach groynes scheme, stage II, for B.C.: W. W. Howard Bros. and Co., Ltd., 4 Stanhope Street, London, N.W.1 (recommended). Estimated cost—£4,833.

Walthamstow, Essex.—Supply of the following, for B.C.: 1,000 (B.S.S. 792) dustbins and lids—Railway and General Stores Contractors (1953), Ltd., 675 Salisbury House, London, E.C.2, £1,600; fittings for stage 4, Chapel End Secondary and Junior Modern School—Geo. H. Hammer and Co., Ltd., Hermitage Road, London, N.4, £1,376 (recommended).

Worthing, Sussex.—Supply of tar for the surface dressing of roads, for B.C.: South-Western Tar Distilleries, Ltd., 100 Eling Lane, Totton, Southampton, 1s. 4½d. per gallon (recommended).

PLANT AND MECHANICAL TRANSPORT

Baildon, Yorks.—Supply of street cleaner, for U.D.C.: Johnson Bros., Vincent Lane, Dorking, £3,350.

Barnes, Surrey.—Following, for B.C.: Supply of two Dennis Paxit II refuse collection vehicles—Dennis Bros., Ltd., Guildford, £5,570; fitting of power press equipment to four Shelvoke and Drewry fore and aft tipping refuse collection vehicles—Shelvoke and Drewry, Ltd., Letchworth, Herts., £800 (recommended).

Bedford.—Supply of the following, for B.C.: (a) Two Karrier dual-tipping vehicles, each fitted with a diesel engine and an 18 cu. yd. capacity body, and (b) two Commer 3/4-ton tipper lorries, fitted with diesel engines, and one Karrier tipper lorry, fitted with diesel engine and all-steel body—Nicholls and Sons, Ltd., St. Marys Square, Bedford, (a) £4,486, and (b) £3,939; one 40in. Ransome motor mower-roller—W. H. and J. Rogers (Engineers), Ltd., Great Barford, Bedford, £847 (recommended).

Brentford and Chiswick, Middx.—Supply of Massey-Ferguson tractor trailer, for B.C.: Eastern Tractors, Ltd., Chelmsford, Essex, £1,056 (recommended); Penwarden and Frost, Ltd., £1,120; H. A. Saunders, Ltd., £1,070; Ben Turner and Son, Ltd., £1,130; Walter A. Wood, £1,130.

Southampton.—Supply of three 3-ton Bedford lorries and three Scwt. Ford vans, for B.C.: Perrins Motors, Ltd., Marsh Lane, Southampton, £3,046; and P. Hendy, Ltd., Vincents Walk, Southampton, £1,132, respectively (recommended).

Surbiton, Surrey.—Supply of following, for B.C.: One Paxit Major II refuse collection vehicle—Dennis Bros., Guildford, £3,736; one Bedford Lacre road sweeper collector—Kingston Hill Motor Works, Ltd., 33 Kingston Hill, Kingston-upon-Thames, £2,465 (recommended).

Sutton and Cheam, Surrey.—Supply of three Dennis Paxit II refuse collection freighters, for B.C.: Commercial Motor Garage and Repair Co., Ltd., 265 Kingston Road, London, S.W.19, £9,380 (recommended).

Walthamstow, Essex.—Supply of the following, for B.C.: One vibrating roller—Stothert and Pitt, Ltd., 38 Victoria Street, London, S.W.1, £709; one Bristol bulldozer—H. A. Saunders, Ltd., 836 High Road, London, N.12, £1,683; two 15cwt. Thames vans, with Higher Top moulded fibre glass roofs—F. G. Gates, Ltd., 357 Chigwell Road, Woodford Green, £1,183; two quarter-ton Morris pick-up vans—Stewart and Arden, Ltd., 543 High Road, Ilford, £811 (recommended).

PLAYING FIELDS, PARKS, ETC.

Accrington, Lancs.—Development of playing fields, for B.C.: C. A. Wilding and Co., Ltd., Hill Top Lane, Kimberworth, Rotherham, £8,976 (recommended).

Walthamstow, Essex.—Construction of the Vincent Road playground, for B.C.: Direct Labour, £3,740 (recommended, subject to Ministry approval).

Willesden, Middx.—Levelling, draining and resurfacing playing field at Braintcroft School, for B.C.: H. Pearl (Contractors), Ltd., £9,083 (recommended).

RAILWAY ENGINEERING

British Railways.—Following contracts placed: Eastern Region:

Reconstruction of superstructure of Lowgates overbridge 25 at Staveley (Central) Station—Charles R. Price, Barnsley Road, Doncaster.

Supply of three 3-ton mobile cranes for handling concrete sleepers—R. H. Neal and Co., Ltd., Plant House, Ealing, London, W.5.

Cleaning and painting of buildings, structures and bridges including lineside work, between Clapton Tunnel and Chingford Station—Arundel (Contractors), Ltd., 70 Harris Street, Bradford.

Supply of two sets of end-on loading equipment to work with ballast cleaners—The Auto-Mower Engineering Co., Ltd., Norton St. Philip, near Bath.

Reconstruction of engine inspection pits 1 and 2 and engine asphalt 2 at Retford Great (Central) Locomotive Depot—Charles R. Price, Barnsley Road, Doncaster, Yorks.

London Midland Region:

Reconstruction and widening of bridge 32 at Coventry Warwick Road and station platforms and drainage in connection with reconstruction of Coventry Station—The Turriff Construction Corporation, Ltd., Budbrooke Road, Warwick.

Reconstruction of bridge 18 on Runcorn Branch—Leonard Fairclough, Ltd., 3 Chapel Street, Adlington, Lancs.

Tunnel work in connection with main line electrification on Manchester/Crewe line—Sir Lindsay Parkinson and Co., Ltd., 6 Lambeth Road, St. George's Circus, London, S.E.1.

Construction of new bridge 19 on the Crewe/Birdswood line to accommodate the raising and electrification of existing double rail tracks in connection with the widening of Winsford/Middlewich road, A.54, for the Cheshire County Council—Leonard Fairclough, Ltd., 3 Chapel Street, Adlington, Lancs.

New freight terminal at Leicester Queen Street—Wilson Lovatt and Sons, Ltd., Clarence Street, Wolverhampton.

Extension and reconstruction of platforms, earthworks, permanent-way track section cabins and relay rooms on the Trent Valley line between Stafford and Rugby—Turriff Construction Corporation, Ltd., Budbrooke Road, Warwick.

Extensions to offices at Liverpool Brunswick Dock Goods Depot, for S.P.D., Ltd.—F. Parkinson, Ltd., Mowbray Drive, Blackpool, Lancs.

North Eastern Region:

Supply of a diesel alternator standby set for Morpeth station in connection with the installation of colour light signalling between Newcastle and Berwick—Petbow, Ltd., Sandwich.

Supply of a wool-piling machine for use at Bradford Valley Goods Depot—Wingrove and Rodgers, Ltd., Liverpool.

Strengthening of an existing crane gantry at Walkergate Carriage and Wagon Works—Wright Anderson, Ltd., Gateshead.

Supply of a cylindrical grinder for the York Carriage and Wagon Works—Landis Lund, Ltd., Keighley.

Supply and installation of electric cabling and fittings at Gateshead Greenfield

motive power depot—S. H. Heywood and Co., Ltd., Manchester.

Building of two bridges in connection with construction of new marshalling yard at Lamesley—Dowsett Engineering Construction, Ltd., Gateshead.

Installation of heating and water services in offices at Holgate Villa, Yorks.—W. E. Hargrave, Ltd., York.

Provision of a surface grinder for the York Carriage Works—G. W. S. Burdett and Co., Ltd., Peterborough.

Provision of fuelling facilities for diesel railcars at Manningham motive power depot—Wakefield-Dick Industrial Oils, Ltd., London, N.W.1.

Provision of a 3-ton capacity mobile self-propelled crane for the Chief Civil Engineer's department at York—George Cohen, Sons and Co., Ltd., London.

Supply of four sets of welding equipment for use by the Chief Civil Engineer's department, York—Thermit Welding (Great Britain), Ltd., Rainham.

Supply of electric cabling and switchgear at Tweedmouth station in connection with the installation of colour light signalling between Newcastle and Berwick—Enfield-Standard Power Cables, Ltd., Enfield.

Provision of a toilet block at the British Railways Staff Association Club, 30 St. John's Road, Huddersfield—Smithson and Sons, Ltd., Huddersfield.

Supply of nine 10,000-gallon tanks for oil storage at York motive power depot—Robt. Jenkins and Co., Ltd., Rotherham.

Western Region:

Construction of a signal box at East Usk and of relay houses in the Newport area—John Morgan (Builders), Ltd., Northumberland Lodge, Cathedral Road, Cardiff.

Erection of office and amenity buildings and other works to be carried out at the running and maintenance depot, Stourbridge—Wilson Lovatt and Sons, Ltd., Clarence Street, Wolverhampton.

Provision of earthworks and fencing in connection with the construction of a district engineer's depot at Bristol (Ashton Gate)—A. E. Farr, Ltd., Station Road, Westbury, Wilts.

Supply, installation, testing, connecting and setting to work of electric lighting facilities, etc., at Stormstown Yard, Abercynon—George E. Taylor and Co. (London), Ltd., Southwark Bridge Road, London, S.E.1.

Provision and installation of an automatic telephone exchange at Marland House, Cardiff—The Reliance Telephone Co., Ltd., Lawford Street, Bristol.

Believe it or not!

The Cleveland 140 Wheel Trencher, illustrated, was timed cutting a trench 4ft. deep and 21in. wide through gravelly clay subsoil on a 22-mile high-pressure gas main laying contract in the Eastern Counties **AT THE RATE OF NEARLY 20FT. PER MINUTE.**

Speed of digging, the outstanding characteristic of Cleveland Trenchers, gives higher output at lower cost even under the most severe conditions.

The Model 140 will cut trenches from 17½in. to 30in. wide to a maximum depth of 5ft. 6in., and has a range of digging speeds from .5ft. to 37.3ft. per minute. 16in. crawler tracks give a ground pressure of only 5.7lb. per sq. in.



Full details from U.K. Manufacturers and Distributors:

JOHN ALLEN & SONS (OXFORD) LTD • COWLEY • OXFORD • Tel. Oxford 77155-6-7

Supply of steelwork, etc., for the renewal of the cylinder bracings and diagonals to the bridge under the line, near Newport Station—The Fairfield Shipbuilding and Engineering Co., Ltd., Chepstow, Mon.

Supply and erection of a batching plant at Taunton Concrete Works—Acrow (Engineering), Ltd., South Wharf, London, W.2.

Supply and erection of a concrete-framed storage building at Park Royal—Bell and Webster, Ltd., Essex Road, Hoddesdon, Herts.

Supply and erection of a standby supply generating set in Newport High Street, Signal Box—Pelapone, Ltd., Bruton Street, London, W.1.

Renewal of the roof covering and glazing to the roof over the inwards side, Goods Depot, Cardiff Newtown—Carter-Horseley (Engineers), Ltd., Horseley Works, Tipton, Staffs.

RIVER AND FLOOD PREVENTION WORKS

Maidenhead, Berks.—Flood relief scheme, stage 1, for the Thames Conservancy Board, comprising excavations through the Bray area, from the railway line to the river and involving the widening and deepening of the Maidenhead Ditch and The Cut, enlarging other channels and making new cuts and further structural work on bridges, for Coff and Sons (Excavations), Ltd., Buckhurst Hill, Chesham, Ascot, £48,167 (recommended, subject to Ministry approval).

ROADS, BRIDGES AND SITE WORKS

Antrim.—Widening of first-class road A.2 at Drains Bay, along the sea front, for approximately 150 lin. yd., for C.C. Robert Allen, Crevillyvalley, Shankbridge, Ballymena, £4,884.

Ayrshire.—Supply of 550 tons of steelwork for six bridges in stage 1 of the new Ayr-Prestwick by-pass, for C.C.: William Bain and Co., Ltd., Lochrin Ironworks, Coatbridge. Estimated cost £30,000. Whatlings, Ltd., 10 Woodside Crescent, Glasgow, C.3, are the main contractors.

Barnes, Surrey.—Reconstruction of Castelnau (part), for B.C. Parr-Head and Clements Knowling, Ltd., Derwent Yard, London, W.5, £11,014 (recommended).

Bedford.—Subsoil and sub-strata surveys of bridge sites at Batts Ford and Newnham, for B.C.: Truscon, Ltd., George House, George Road, Edgbaston, Birmingham, 15, £1,250 (recommended).

Beverley, Yorks.—Surface dressing of certain carriageways in the borough, for B.C.: S. Sutcliffe and Son, Ltd., Cragg Road, Mytholmroyd, £1,816 (recommended).

Brentford and Chiswick, Middx.—Following works, for B.C.: Resurfacing and surface dressing of roads, 1960-61—Tarmac Civil Engineering, Ltd., Thorney Lane, Iwer, Bucks., and H. V. Smith and Co., Ltd., 24 Ashley Place, London, S.W.1.

Making-up of Ernest Gardens—D. R. Paterson, Ltd., 33 Granville Road, London, N.W.2, £1,943 (recommended); Allmacadams, Ltd., £2,223; W. and C. French, Ltd., £2,873; L. Goodall and Sons, Ltd., £2,035; Parr-Head and Clements Knowling, Ltd., £2,141; H. V. Smith and Co., Ltd., £2,624; Sparkes (Construction), £2,135; Waywarden, Ltd., £1,993; A. A. Williams (Contractors), Ltd., £1,993 Willment Bros., Ltd., £2,328.

Making-up of Garth Road—A. A. Williams (Contractors), Ltd., 405 Nelson Road, Hounslow, £2,616 (recommended);

Allmacadams, Ltd., £2,867; W. and C. French, Ltd., £3,304; L. Goodall and Sons, Ltd., £2,783; Parr-Head and Clements Knowling, Ltd., £2,938; D. R. Paterson, Ltd., £2,838; H. V. Smith and Co., Ltd., £3,287; Waywarden, Ltd., £2,618; Willment Bros., Ltd., £2,901.

Making-up of Station Road: Waywarden, Ltd., Waywarden House, 215 Forest Road, London, E.17, £1,433 (recommended); Allmacadams, Ltd., £1,619; W. and C. French, Ltd., £1,940; L. Goodall and Sons, Ltd., £1,491; Parr-Head and Clements Knowling, Ltd., £1,731; D. R. Paterson, Ltd., £1,601; H. V. Smith and Co., Ltd., £1,128; Sparkes (Construction), £1,261; A. A. Williams (Contractors), Ltd., £1,509; Willment Bros., Ltd., £1,818.

Chester.—Following works, for City Council: Making-up of Fieldway, Woodlands Drive and Sandleigh—J. W. Flather, Ltd., Bleak House, Ellesmere Port, Ches., £3,313, £2,206 and £4,314, respectively; cold asphalt sheeting of Hoole Lane, Overleigh Road, Elmwood Avenue, Oaklea Avenue, Crewe Street, Blacon Roads (various) and St. Marks Road—Tarmac Civil Engineering, Ltd., Ettingshall, Wolverhampton. Total estimated cost £7,800 (recommended).

Chislehurst and Sidcup.—Widening part of Chislehurst High Street (A.208), involving approximately 1,350 sq. yd. concrete foundation and asphalt surfacing 1,650 sq. yd. footway paving, 160 lin. yd. surface water sewer (12in. and 15in.) and ancillary works, stage 1, for U.D.C. W. B. Farrow, engineer and surveyor: Percy Bilton, Ltd., Bilton House, 54-58 Uxbridge Road, Ealing, W.5, £16,609.

Christchurch, Hants.—Surface dressing approximately 32,000 sq. yd. of carriageways, for B.C. E. B. Wise, borough engineer: C. R. Berrett and Co., Ltd., Wilton, near Salisbury. Estimated cost £1,150.

Coalville, Leics.—Surface dressing of roads (74,000 sq. yd.), for U.D.C. R. H. Smith, engineer and surveyor: W. and J. Glossop, Ltd., 1 St. George's Place, York. Work commencing May 16.

Doncaster, Yorks.—Construction of roads and footpaths in Mill Street, Armthorpe and Gattison Lane (West), Rossington, for R.D.C.: North Lonsdale Tarmacadam, Ltd., Albion Works, Sheffield, £3,593 and £4,623, respectively.

Enfield, Middx.—Following works, for B.C.: Resurfacing of class 3 and district roads—John Sugrue and Sons, Ltd., 194 Kilburn High Road, London, N.W.6, £4,460 (recommended); Waywarden, Ltd., £4,602; William F. Rees, Ltd., £4,627; Amalgamated Roadstone Corporation, Ltd., £4,543; W. and J. Glossop, Ltd., £4,818; H. V. Smith and Co., Ltd., £4,734; George Wimpey and Co., Ltd., £5,046; The Drybrook Quarries, Ltd., £4,601; Tarmac Civil Engineering, Ltd., £4,696; Home Counties Contracting Co., Ltd., £5,144.

Reconstruction and reinstatement of footways and footway crossings—J. H. Hitchin, 23 St. Mary's Grove London, N.1 (recommended three-year contract).

Eston, Yorks.—Private street works, St. Margaret's Grove, South Bank, for U.D.C., comprising the laying of approximately 720 sq. yd. of tarmacadam and cold asphalt surfacing, together with kerbing, channelling, flagging and ancillary works. N. C. Harrison, engineer and surveyor: Tarslag, Ltd., Tees Bridge, Stockton-on-Tees, £728 (accepted); Lonsdale (Tees-side),

Ltd., £898; Rama Construction Co., Ltd. £926; Taylors (Crook), Ltd., £1,259.

Godalming, Surrey.—Tarspraying programme, 1960, for B.C.: North Thames Gas Board, 17.75d. per gallon for tar bitumen spray for roads and 21.75d. per gallon for footpaths.

Hatfield, Herts.—Advance preparation of a housing site at School Lane, Essendon, for R.D.C., comprising approximately 530 cu. yd. excavation, 1,100 sq. yd. carriage-way foundation, 360 lin. yd. kerb race and 560 lin. yd. 6in. diameter sewer. W. J. Davies, engineer and surveyor: P. Bourjeaud, Ltd., St. Bernards, St. Albans Road, Hatfield, £3,492. Work commencing June.

Havant and Waterloo, Hants.—Following works, for U.D.C. R. R. Hole, engineer and surveyor: Barncroft Way extension, comprising the construction of approximately 300 lin. yd. of 24ft. wide reinforced concrete carriageway; 85 lin. yd. of 18ft. wide reinforced concrete carriageway with kerbing; 6ft. footpaths and verges; 348 lin. yd. of 6in. and 105 lin. yd. of 9in. surface water drainage, together with all ancillary works, and approximately 4,800 cu. yd. of excavation—Southern Counties Construction Co., Ltd., 204 London Road, Waterlooville, Hants. Work commenced.

Making-up of Morelands Road (part), comprising the scarifying, reshaping and surfacing of 615 sq. yd. of carriageway; the provision and laying of 218 lin. yd. of kerbs and 193 lin. yd. of channel, the construction and laying of 212 sq. yd. of flexible footway, 100 sq. yd. of precast concrete paving slabs, 64 sq. yd. of concrete car crossings, 197 sq. yd. of verges, together with 75 lin. yd. of 6in. diameter surface water sewer, and ancillary works: Westco (Homdean), Ltd., 79 Portsmouth Road, Homdean, Hants. Work commencing June.

High Wycombe, Bucks.—Construction of roads and sewers at Hicks Farm estate (stage 2), for B.C.: Amey's Asphalt Co., Ltd., Sutton Courtenay, Abingdon, Berks., £26,704 (recommended).

Hornsea, Yorks.—Surface dressing of 25,978 sq. yd. of roads and footpaths, for U.D.C.: S. Sutcliffe and Co., Ltd., Halifax, £1,114 (accepted); W. and J. Glossop, Ltd., £1,135; Lincolnshire Spraying and Contracting Co., Ltd., £1,132; Pavior Construction Co., Ltd., £1,152; Bristowes Tarvia Contracting, Ltd., £1,141; Sangwin, Ltd., £1,138.

Irthlingborough, Northants.—Footpath resurfacing, for U.D.C., comprising the laying of approximately 3,500 sq. yd. of cold asphalt, together with approximately 400yd. of tarred slag and a small amount of rekerbing. A. Dewhurst, surveyor: Drybrook Quarries, Ltd., Wellingborough, £1,096.

Lambeth.—Supplying and laying rolled asphalt for 1960-61 roads reconstruction programme, for B.C.: Mowlem Paving Co., Ltd., 19 Grosvenor Place, London, S.W.1, £28,506 (recommended).

Lichfield, Staffs.—Repairs to laundry yard and car park at St. Matthew's Hospital, Burntwood for the Birmingham Regional Hospital Board: John Bannister and Sons (Alrewas), Ltd., Main Street, Alrewas, Burton-upon-Trent, £1,212 (recommended).

Mablethorpe and Sutton, Lincs.—Street works, Victoria estate, Sutton-on-Sea, for U.D.C., comprising construction of approximately 90yd. of new tarmac road, 19ft. overall width with footpath and surface water drainage; the rehabilitation of existing concrete highway (approximately 130yd. in length), including the re-laying of foot-



230 UPPER THAMES STREET · LONDON · E.C.4 · CENTRAL 4381
 Poyle Steelworks · Colnbrook · Nr. Slough · Colnbrook (CN8) 2504
 8 Cornhill · Liverpool · Royal 3868 7 John Street · Glasgow · Bell 2983

FENCING

MILD STEEL
 CHAIN LINK
 WOVEN WIRE

To ensure prompt
 delivery be sure to specify Croggon

CROGGON & CO. LTD · ESTABLISHED 1833

Croggon

paths, repair of existing surface water drainage and the filling-in of dyke, and extension of an existing concrete road, involving the laying of approximately 85 sq. yd. concrete. E. Jordan, engineer; W. G. C. Hammond, Ltd., Mablethorpe, £1,697. Work about to commence.

Nottinghamshire.—Making-up of Ashley Road and Church Drive, Keyworth, for C.C., including tarmacadam surfacing, stone pitching, kerbing and surface water drainage: Mapperley Construction Co., Kimberley Road, Nuthall, Notts., £6,814.

Sevenoaks, Kent.—Following at the permanent housing site, Farley Croft, Westerham, for R.D.C.: Construction of a hard-core and tarmacadam carriageway, footpaths and kerbing, together with the widening and improvement of an existing private drive, for a site for eight houses. The work also includes the provision of nine new gullies, a 6in. diameter surface water system, together with two brick manholes and one brick catchpit, and the laying out of grass areas. N.W. Cole, architect, Inglewood, Oakhill Road, Sevenoaks; R. Marchant and Sons, Ltd., Ashdene, Morleys Road, Sevenoaks, Weald, £4,296 (accepted, subject to Ministry approval); Arnold and Nathan, £4,526; Johnson Bros. Ltd., £5,927; J. Murphy and Son, £6,301. Work commencing June.

Solihull, War.—Construction of a car park in Stratford Road, Shirley, for B.C. C. R. Hutchinson, borough engineer and surveyor; J. Hadfield and Sons, Ltd., 2 Harropp Road, Birmingham, £6,994.

Southampton.—Surfacing old tarmacadam footways with ½in. asphalt, for B.C.: Limmer and Trinidad Lake Asphalt Co., Ltd., Trinidad House, Bournemouth Road, Chandlers Ford, 2s. 8d. per sq. yd. (recommended).

Stoke-on-Trent, Staffs.—Making-up of West Crescent, Sneyd Green, and Riley Avenue, Burslem, for City Council: Roy Beech (Contractors), Ltd., 9 Brook Street, Stoke-on-Trent, £7,190, and F.H.M. Contractors, Ltd., off Brook Lane, Newcastle-under-Lyme, £2,276, respectively (recommended).

Sunderland, Dur.—Following works, for B.C.: Footway Works, Shields Road, footpath, kerb and flagging works at Azaled

Terrace South, and removal of tram tracks in the forecourts of Hylton Road depot and Wheatheaf depot, and resurfacing with hot asphalt—Direct Labour, £556, £1,494 and £1,685, respectively (recommended).

Sutton and Cheam, Surrey.—Extension to Cheam Road Car Park, for B.C.: Surface maintenance Services, Ltd., 124 Old Christchurch Road, Bournemouth, Hants, £2,471 (recommended).

Truro, Corn.—Construction of approximately 370 sq. yd. of tarmacadam carriageways, 130 lin. yd. of concrete kerbing, together with footways, drainage, etc., at Baynard's Meadow, for City Council. S. John O'Farrell, engineer and surveyor; G. E. Wallis and Sons, Ltd., 25 Boscawen Street, Truro, £1,589 (accepted); A. H. Dingle, Ltd., £1,847; Hoare Bros., Ltd., £1,972.

Walthamstow, Essex.—Layout of three garage courts and a children's playground adjoining the access road at the rear of stages 7 and 7a at The Drive, for B.C.: Direct Labour (recommended).

West Hartlepool, Dur.—Construction of footpaths to serve 500 houses on Owton Manor estate, for B.C.: Direct Labour.

Worthing, Sussex.—Resealing of joints in concrete roads, for B.C.: Concrete Repairs, Ltd., and Sealers (London), Ltd., 25 Victoria Street, London, S.W.1, £1,080 (recommended).

SEWERAGE, SEWAGE AND REFUSE DISPOSAL

Baldon, Yorks.—Sewer cleaning equipment, for U.D.C.: General Descaling Co., Ltd., Retford Road, Workson, Notts.

Cwmbran, Mon.—Culverting of Cwmnant Brook (third section) at Orchard Place, for U.D.C., including 15 lin. yd. of precast concrete box culvert under existing road, 107 lin. yd. of twin 24in. diameter pipes culvert and ancillary works; J. E. Jones and Co., Ltd., Blackwood, Mon., £2,391.

Droxford, Hants.—Bishops Waltham sewerage and sewage disposal scheme, contract 1, for R.D.C. Lemon and Blizard, consulting engineers, Telford House, Hulse Road, Southampton: Southern Counties Construc-

tion Co., Ltd., 204 London Road, Waterloo-ville, Hants, £212,171 (accepted); Austen Shives, Ltd., £214,499; J. Murphy and Sons, Ltd., £218,353; Mactrac, Ltd., £219,932; Tilbury Construction Co., Ltd., £232,141; A. E. Farr, Ltd., £235,509; H. Osman and Co., Ltd., £237,267; Bosworth and Wakeford, Ltd., £239,513; Warings (Contractors), Ltd., £239,822; Kenyon's (Civil Engs.), Ltd., £245,605; Bridgwater Bros., Ltd., £253,413; T.H. Contractors, Ltd., £273,892; Howard Farrow, Ltd., £275,378.

Exeter.—Construction of the Longbrook surface water sewerage scheme, for City Council: James Dennis and Son, Ltd., Chivenor, Braunton, Devon, £199,787.

Glanford Brigg, Lincs.—Following works, for R.D.C. J. H. Haiste and Partners, consulting engineers, Belmont House, 20 Wood Lane, Headingley, Leeds, 6: Wrawby sewerage scheme, contract 1, comprising the construction of approx. 7,400yd. of 9in. and 6in. dia. concrete tube sewers and 2,000yd. of 4in. and 5in. dia. spun-iron rising mains, together with manholes, pumping station, ejector station, and ancillary works—M. Leydon, Scunthorpe. Estimated cost £40,000.

Provision, erection and maintenance of duplicate 80 g.p.m. sewage pumps, complete with electric motors, starters and accessories, to be installed at Wrawby—Hughes and Lancaster, Ltd., Acrefair, Wrexham, £1,600. Work about to commence.

Havant and Waterloo, Hants.—Cowplain surface water drainage scheme, for U.D.C., comprising the construction of approx. 32 lin. yd. of 9in. dia., 30 lin. yd. of 12in. dia., 217 lin. yd. of 27in. dia., and 71 lin. yd. of 30in. dia. surface water sewers, and ancillary works connected therewith: A. L. J. Davis (Public Works), Ltd., Quarry Lane, Whyke, Chichester, Sussex.

Kingston-upon-Thames, Surrey.—Sewer cleaning and photographing from Clattern Bridge to Downhall Road, for B.C.: General Descaling Co., Ltd., 22 Queen Anne's Gate, London, S.W.1, £7,538 (recommended).

Morpeth, Northumb.—Reconstruction and enlargement of Pegswood sewage disposal works, for R.D.C. J. R. Miles, surveyor: Derek Crouch, Ltd., Station Road, Birtley,

REX

- ★ HIGH DISCHARGE
- ★ WIDE SPOUTING RANGE
- ★ FAST WATER ENTRY
- ★ ALLOY STEEL DRUM & BLADES
- ★ AVAILABLE WITH POWER TAKE-OFF DRIVE

"Adjusta-Wate" Moto-Mixers

REX "Adjusta-Wate" Moto-Mixers make bigger profits for ready-mixed concrete operators. They carry greater payloads and their fast water entry and speedy charge-mix-discharge cycle clips minutes off delivery times, enabling more trips per day to be made. Let "REX" bring a new economy to your ready-mixed concrete deliveries.



BLOW KNOX LTD

Box No 146 90/94 Brompton Road London SW3

BK 567

Co. Durham. Estimated cost between £27,000 and £28,000.

Portland, Dorset.—Construction of approximately 400 lin. yd. of 6in. foul sewers and 500 lin. yd. of 9in., 12in. and 15in. surface water sewers, together with the necessary appurtenant works, from the Verne Common, stage 4, housing site to the existing sewers at Castletown, for U.D.C. Eric B. Cullin, engineer and surveyor: Littleseas Estates, Ltd., Lanehouse Rocks Road, Weymouth, Dorset, £5,791 (subject to Ministry approval).

Shephed, Leics.—Sewers and water mains, Glenmore estate, for U.D.C., comprising the laying of approximately 1,800yd. of 12in., 9in. and 6in. diameter glazed stoneware and concrete drain pipes in various depths up to 9ft., together with concrete tube manholes and 74yd. of 4in. cast-iron water mains. McCarthy, Collings and Co., architects, 187 Forest Road, Coalville: Laughton and Denham, Ltd., Leicester, £6,831 (accepted); T. E. and B. C. Steed, £7,164; G. F. Tomlinson and Sons, Ltd., £7,271; Reliable Road (Shephed), Ltd., £7,381; Midland Excavators, Ltd., £7,767; Neale and Wall, £8,394; Orton and Dalby, £7,871; F. Perks and Son, £8,896; Barber Construction Co., £8,490; Joseph Webster, Ltd., £8,670. Work commencing July.

Southampton.—Elimination of cesspits, stage III, for B.C.: Baillie and Edwards, Ltd., 184 Portswood Road, Southampton, £4,908 (recommended).

Worthing, Sussex.—Supply of thickened 54in. dia. concrete pipes and flexible joints for use in the diversion of the Teville Stream in connection with extensions at the East Worthing Sewage Works, for B.C.: Stanton Ironworks, Ltd., near Nottingham, £2,375 (recommended).

STREET LIGHTING

Brentford and Chiswick, Middx.—Supply and erection of 550 district road lighting units, 60-W sodium, on concrete columns, for B.C.: Machinery Installations, Ltd., 60a High Street, W.3.

Ellesmere Port, Ches.—Supply, erection and wiring of 80 class B concrete utilities columns and a.e.i. lanterns, for B.C.: Gallagher and O'Brien Enterprises, Ltd., Cumberland Chambers, Church Gate, Loughborough, Leics., £4,290.

Enfield, Middx.—Street lighting equipment, for B.C.: Supply of lanterns, lamps, control gear, etc.—Atlas Lighting, Ltd., 233 Shaftesbury Avenue, London, W.C.2, £2,764 (recommended); General Electric Co., Ltd., £2,817; Engineering and Lighting Equipment Co., Ltd., £2,828; A.E.I. Lamp and Lighting Co., Ltd., £2,976; The Wardle Engineering Co., Ltd., £3,038; Phosco, Ltd., £3,117;

Concrete Utilities, Ltd., £2,992; Revo Electric Co., Ltd., £3,254.

Supply of columns and brackets—Concrete Utilities, Ltd., 11 Albert Square, Manchester, £5,095 (recommended); Stanton Ironworks Co., Ltd., £5,435; Engineering and Lighting Equipment Co., Ltd., £4,487; Atlas Lighting, Ltd., £5,130; Revo Electric Co., Ltd., £5,440.

Erection of columns and lanterns, etc.—S. A. Inston and Co., Stafford, £11,273 (recommended); General Electric Co., Ltd., £12,450; Erecon, Ltd., £12,195; Abacus Engineering, Ltd., £12,637; O. C. Summers, Ltd., £12,444; E.L.E.C.O., Ltd., £12,778; Atlas Lighting, Ltd., £12,637; Harland and Wolff, Ltd., £13,451; Concrete Utilities, Ltd., £12,246; Cohen Bros. (Elec.), Ltd., £12,491; Bagshaws Contractors, Ltd., £12,494.

Havant and Waterloo, Hants.—Supply of lanterns, lamps and equipment, steel, cast-iron or alloy columns and brackets, and erect, wire up and bring into service, for U.D.C. R. R. Hole, engineer and surveyor: Revo Electric Co., Ltd., Tipton, Staffs.; Abacus Engineering, Ltd., Russell Chambers, King Street, Nottingham; Southern Electricity Board, Lower Drayton Lane, Cosham, Portsmouth. Work commencing June.

Heston and Isleworth, Middx.—Street lighting improvement in Wellington Roads North and South, for B.C.: A.E.I. Lamp and Lighting Co., Ltd., 132 Long Acre, London, W.C.2, 3,626 (recommended); Atlas Lighting, Ltd., £3,935; Machinery Installations, £3,774; Engineering and Lighting Equipment Co., Ltd., £3,755; O. C. Summers, Ltd., £3,720; General Electric Co., Ltd., £3,692; Erecon, Ltd., £3,560; Abacus Engineering, Ltd., £3,477.

High Wycombe, Bucks.—Improvements to street lighting at Wycombe/Amersham Road, A.404, for B.C.: General Electric Co., Ltd., Kemble House, Kean Street, London, W.C.2, £4,778 (recommended).

Lambeth.—Supply of mounting boxes and extension pieces for stage 11 of scheme to convert from gas to electric lighting, for B.C.: A. C. Ford, Ltd., £2,664 (recommended).

Mansfield, Notts.—Main road lighting, contract 5, for B.C.: Abacus Engineering, Ltd., Russell Chambers, 2 King Street, Nottingham, £2,238 (recommended in lieu of previous tender).

Newcastle upon Tyne.—Supply of street lighting equipment, for City Council: 1,200 post top lanterns—Engineering and Lighting Equipment Co., Ltd., St. Albans, £5,970; 1,456 lamp columns—Stewarts and Lloyds, Ltd., Glasgow, £11,823; 1,552 time-switches—Sangamo Weston, Ltd., Middx., £5,703.

GOVERNMENT CONTRACTS

Admiralty.—Particulars of contracts over £1,000 in value placed by Navy Works Department:

Lancashire: alterations to buildings—G. H. Smith (Liverpool), Ltd., Liverpool.

Kent: plastering—Dennis and Etherington, Rochester.

Devon: building—E.B.C. and Sleeman, Ltd., Exeter.

Fife: test piling—H. M. Murray and Co., Ltd., Glasgow, C.2.

Metropolitan Police.—Recent contracts placed include:

Internal redecoration and external painting, Pickering House, Windmill Lane, Ealing—The Middlesex Paint Craftsmen, £1,400.

Internal redecoration and external painting, Hammersmith Police Station—Galbraith Bros., Ltd., £2,212.

Internal redecoration and external painting, Garrett Lane, Tooting—Alfred Bros., Ltd., £588.

Internal redecoration and external painting, Brooklyn, Anerley Road, Penge—Geo. Barker (Builders), Ltd., £6,063.

Post Office.—Contracts for duct laying, etc., works to the value of £500 and over placed during the week ended April 16:

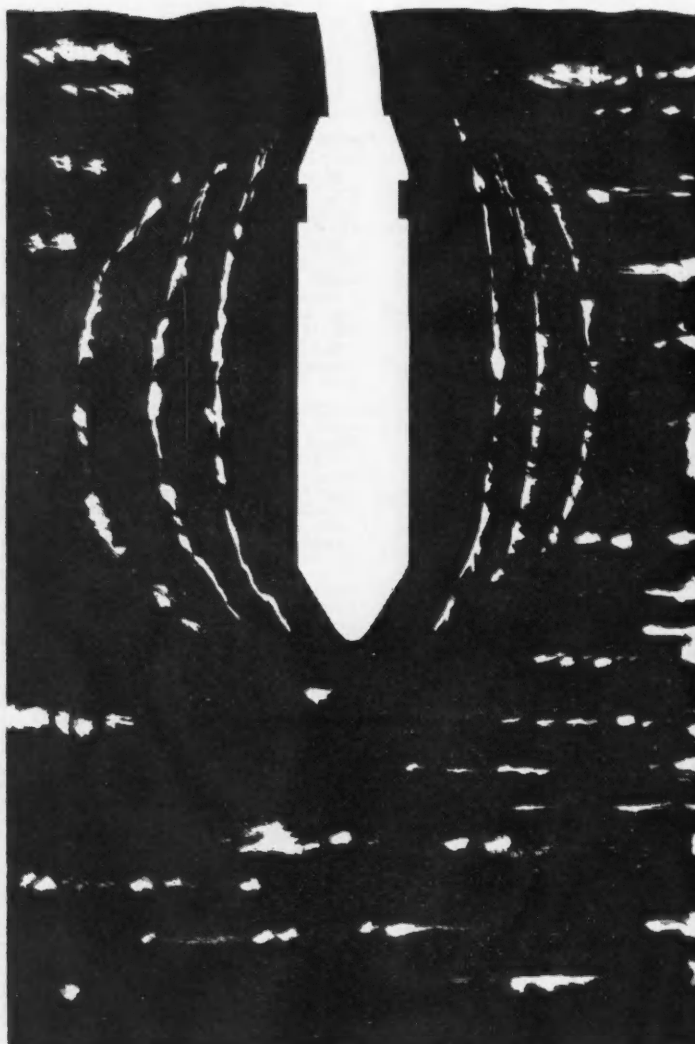
C.D.L. Construction Co., Ltd., Church Road, Egham, Surrey; A. R. Cleghorn and Co., Ltd., 34-36 Harvey Lane, Norwich, Norfolk; Crawford and Cryan, Ltd., 124 Stafford Road, Wallington, Surrey; P. Cusack and Co., Ltd., 52 Parkside Way, North Harrow, Middx.; A. L. J. Davies (Public Works), Ltd., Whyke, Chichester, Sussex; The Eden Construction Co., Ltd., English Damside, Carlisle, Cumb.; McNicholas Construction Co., Ltd., 31a Cricklewood Broadway, London, N.W.2; J. Murphy and Sons, Ltd., 43 Charteris Road, Finsbury Park, London, N.4; The Norwest Construction Co., Ltd., Litherland, Liverpool, 21; John O'Dea, Ltd., 145 Otley Old Road, Lawnswood, Leeds, 16, Yorks.; Robert Paterson and Sons, Ltd., Milton Street, Airdrie, Lanarks.; Staveley Builders, Ltd., 18 St. David's Drive, Barnsley Road, Doncaster, Yorks.; William Tawse, Ltd., Bower, Halkirk, Caithness; George Taylor (Wolverhampton), Ltd., The Viewlands, Cross Road, Albrighton, Wolverhampton, Staffs.; Alexander Thomson and Co. (London), Ltd., 45a Kensington High Street, London, W.8; William Tickle and Co., Ltd., 2 Waddicar Lane, Melling, Liverpool.



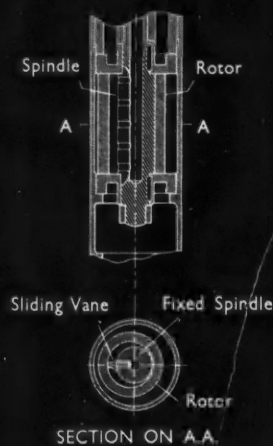
GEO. PIKE LTD
EQUIPMENT WORKS - ALMA STREET
BIRMINGHAM · 6.
BRANCHES AT
BELFAST, BRISTOL, CARDIFF, GLASGOW, LONDON,
MANCHESTER, PETERBOROUGH & STOCKTON
PLANT & TOOLS

VAL DE TRAVERS
FOR ASPHALTE · TARMACADAM · FELT ROOFING

LONDON · BARROW · BIRMINGHAM · CANTERBURY · EXETER · GLASGOW · LINCOLN · LIVERPOOL · MANCHESTER · NEWCASTLE



**Look —
no bearings!**



only two air-cushioned moving parts . . .

The amazing Sinex Turbo-pneumatic Immersion Vibrators are available in four types. The smallest vibrator has a diameter of only $1\frac{3}{8}$ inches, making it an ideal tool where close reinforcement is encountered. Three other types cover almost all the needs for speedy and efficient concrete compaction. Two External type vibrators are also available for use on shuttering, moulds and tables.

The unique design makes this range of vibrators outstandingly powerful, robust and reliable. The immersion type are in fact, the world's largest selling vibrators.

Write for leaflet STV 1/2/3.

SINEX

Turbo-pneumatic Vibrators are
distributed and serviced by

Holman

Holman Bros. Ltd., Camborne, England; Camborne 2275 and at 44 Brook Street, London, W.1; Hyde Park 9444.
Also in Birmingham • Cardiff • Glasgow • Peterborough • Sheffield. Australia • Canada • East Africa • France
India • South Africa • Spain • U.S.A. • West Africa. With Agents and Representatives throughout the world.

HM35



EIMCO 850



EIMCO—known the world over for their Loaders, now introduce the **EIMCO 850 Dump Truck**

- ★ *Versatile, Manoeuvrable, Effortless!*
- ★ 'U' turns in 22' 9" dia.
- ★ 25,000 lb. pay load
- ★ Finger tip power steering
- ★ Wheel compensation irons out bumps—keeps all four wheels on the ground
- ★ Speeds up to 24 m.p.h.
- ★ Climbs 1 in 4 fully laden
- ★ Reinforced rock body tips to 70° in 12 seconds
- ★ All four wheels interchangeable
- ★ Low centre of gravity and even weight distribution when laden, with high ground clearance gives safety and stability

SEND TO-DAY FOR FULL DETAILS

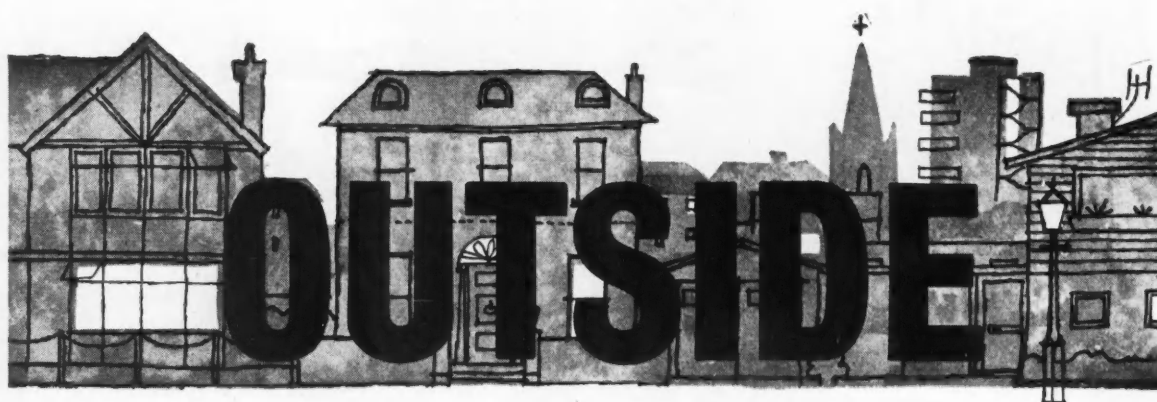
EIMCO (Great Britain) LTD. Team Valley Gateshead 11 England. • Tel. LOW FELL 7-7241

London Office: Princes House • Piccadilly • London W1
Tel. REGent 2184





for the



where



must do more than decorate



ASSOCIATED LEAD MANUFACTURERS LIMITED

LEMENTS HOUSE, 14 GRESHAM ST., LONDON, E.C.2 · CRESCENT HOUSE, NEWCASTLE · LEAD WORKS LANE, CHESTER

VT3F

The world's
handiest **110** c.f.m.
compressor



THE VT3F—a handy compressor for contractors and public works authorities—is designed for economy and manoeuvrability. Able to power two paving breakers or light rock drills, it is the lightest 110 c.f.m. portable built.

The VT3F is the smallest of the famous Atlas Copco VT series of portables—the lightest, most compact portables of their capacity in the world. The low-friction VT design keeps power consumption to a minimum. Crankcase, bellhousing and cylinder ducting form a single welded unit—a form of construction giving an excellent capacity/weight ratio.

The simple design means that maintenance is easy. The canopy can be stripped down in a few minutes and the whole compressor unit can be lifted out by loosening three bolts. As a water-cooled Ford engine is used, every working part of the compressor can be serviced by local mechanics anywhere.

Atlas Copco COMPRESSED AIR ENGINEERS

Full details of the VT3F are available from your local Atlas Copco Branch Office or

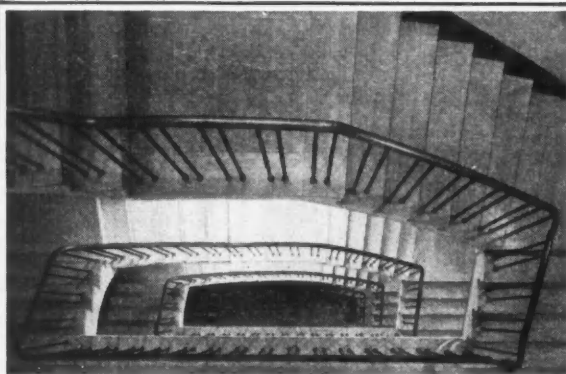
ATLAS COPCO (GREAT BRITAIN) LIMITED

Maylands Avenue, Hemel Hempstead, Herts. Tel: Boxmoor 6040



*The canopy can be stripped
in a few minutes to give
complete access.*

Sales and Service Depots at:
LONDON · BRISTOL · CARDIFF · MANCHESTER · NEWCASTLE · WALSALL · LEEDS · GLASGOW · BELFAST · DUBLIN



Architects: Cotton, Ballard & Blow

Shell-B.P. Building, Leeds

METALWORK

for the Building and Civil Engineering Industries

BALUSTRADES RAILINGS
FIRE ESCAPES SPIRALS
SPECIAL STAIRCASES
BRIDGE BALUSTRADING

BIGWOOD BROS.

(BIRMINGHAM) LTD

WOODFIELD ROAD • BALSALL HEATH • BIRMINGHAM, 12

Established 1879

Phone: CAlthorpe 2641/2

London Offices: 68 VICTORIA STREET, LONDON, S.W.1

Concrete Breaker POINTS



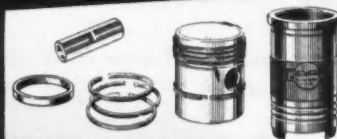
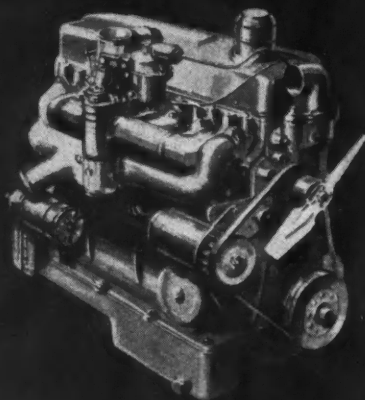
Available from Stock.
Concrete Breaker Steels
in 1½" or 1¼" Hexagon,
also Clay Chisels,
Asphalt Cutters and
Spades for all Breaker
Machines.

SEND FOR LIST 221059

Standall ENGINEERING LTD.

MICKLEY WORKS, DRONFIELD WOODHOUSE, SHEFFIELD
Telephone: SHEFFIELD 72583 Telegrams: "UPSET," SHEFFIELD

SPECIALIZED ENGINE COMPONENTS



"THE SYMBOL OF SERVICE"

These components are manufactured by
**HEPOLITE • WELLWORTHY
HOFFMAN • R & M • SKF • WESTON**

The 40 A.E.S. Service Branches hold comprehensive stocks of the components illustrated and other engine spares for all road vehicles, agricultural and industrial plant

A Member of the **AE** Group

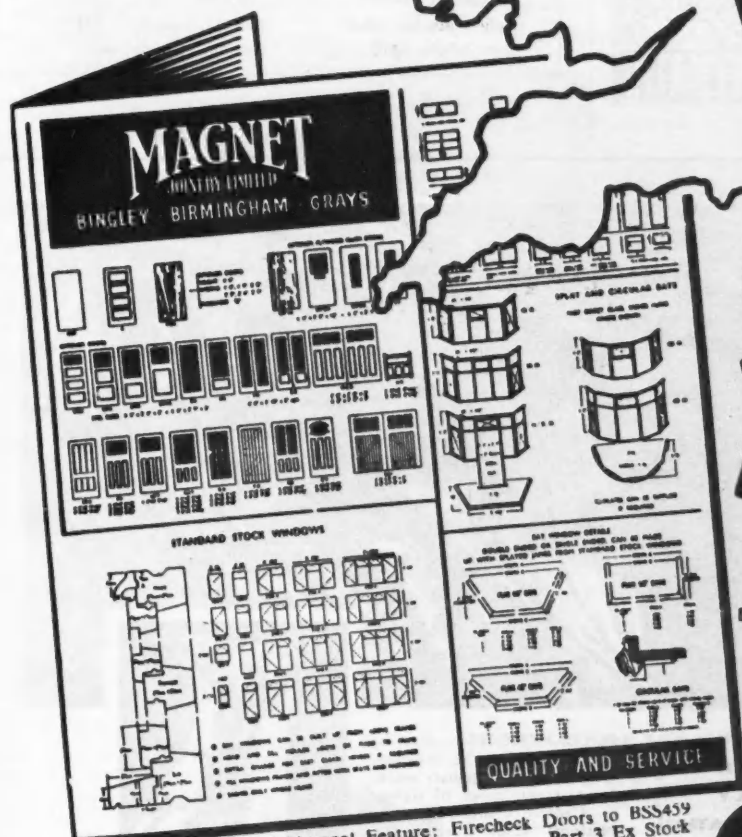
ASSOCIATED ENGINEERING (SALES) LTD

For full details of the A.E.S. Service, please contact your local Service Branch.

Head Office: 123, Mortlake High Street, London, S.W.14

MAGNET can deliver DOORS and WINDOWS anywhere in the country from ample stocks at these three centres

MAGNET Standard Joinery Saves time, cuts delays and reduces costs on building sites throughout the country.



The MAGNET
WALL CHART

**FREE ON
REQUEST!**

DOORS • DOOR FRAMES • FRENCH FRAMES
WINGS AND VESTIBULE FRAMES
STANDARD AND STOCK WINDOWS
SPLAYS AND CIRCULAR BAYS
BAY WINDOW DETAILS

* Additional Feature: Firecheck Doors to BSS459 Part 3 Ex Stock

FOR STANDARD DOORS AND WINDOWS

Whitley Street • Bingley • YORKSHIRE Phone: Bingley 4401 (5 lines)
London Road • Grays • ESSEX Phone: Grays Thurrock 4774/78
Love Lane • Aston • BIRMINGHAM Phone: Aston Cross 3291 (3 lines)

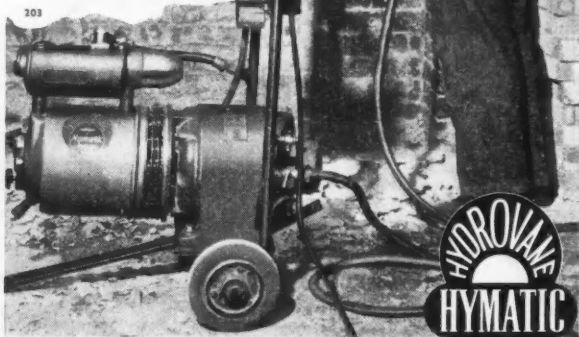
Contact
MAGNET
JOINERY LIMITED

Power on the spot with

HYMATIC-HYDROVANE

MOBILE COMPRESSORS

Hacking off old plaster is only one of the jobs that can be done more quickly and inexpensively with air tools powered by Hymatic-Hydrovane mobile compressors —and there are many more. Send for leaflet HEC. 618/122 which gives full details.



HYMATIC ENGINEERING CO. LTD., REDDITCH, WORCS.

let's get together



Immense savings can be made by placing the entire responsibility of an installation project in the expert hands of

TARSLAG

Mobile Lifting Services who can supply specialists in every engineering field.

Rotherham 78481

Wolverhampton 23881

Chesterfield 4908

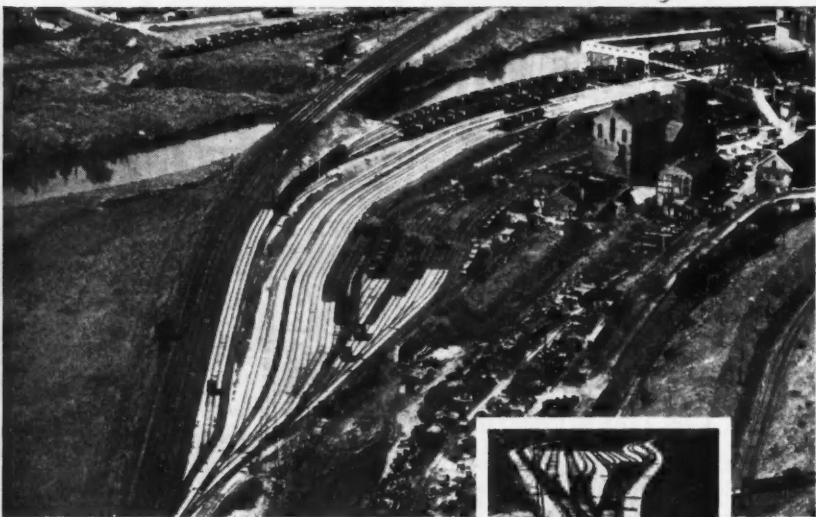
Stockton 65101

Newcastle-on-Tyne 21377

London VICTORIA 0407

**For a
complete
Track
Service**

EAGRE



**SURVEY
DESIGN
SUPPLY
INSTALLATION**

Part of a £360,000 contract by Eagre — earthworks, drainage, tracklaying and ancillary works for thirteen miles of sidings at Cadeby Colliery for the National Coal Board. The photograph shows the project from each end.

Eagre also works for British Railways, the Gas Board, the United Steel Companies, Central Electricity Authority, etc. Materials are supplied from Eagre's own resources. Whatever the magnitude of your siding requirements, consult —

EAGRE CONSTRUCTION CO. LIMITED

East Common Lane SCUNTHORPE Lincs.

Telephone 4513-7

(Photograph by courtesy of the National Coal Board)

The white mass of the London Temple of the Church of Jesus Christ of Latterday Saints at Newchapel in Surrey needed the contrast of warm, rich colour in its surround—a contrast tellingly provided by RED MACAMIT, a specially prepared granite compound for paths, drives, tennis courts, and similar surfaces,

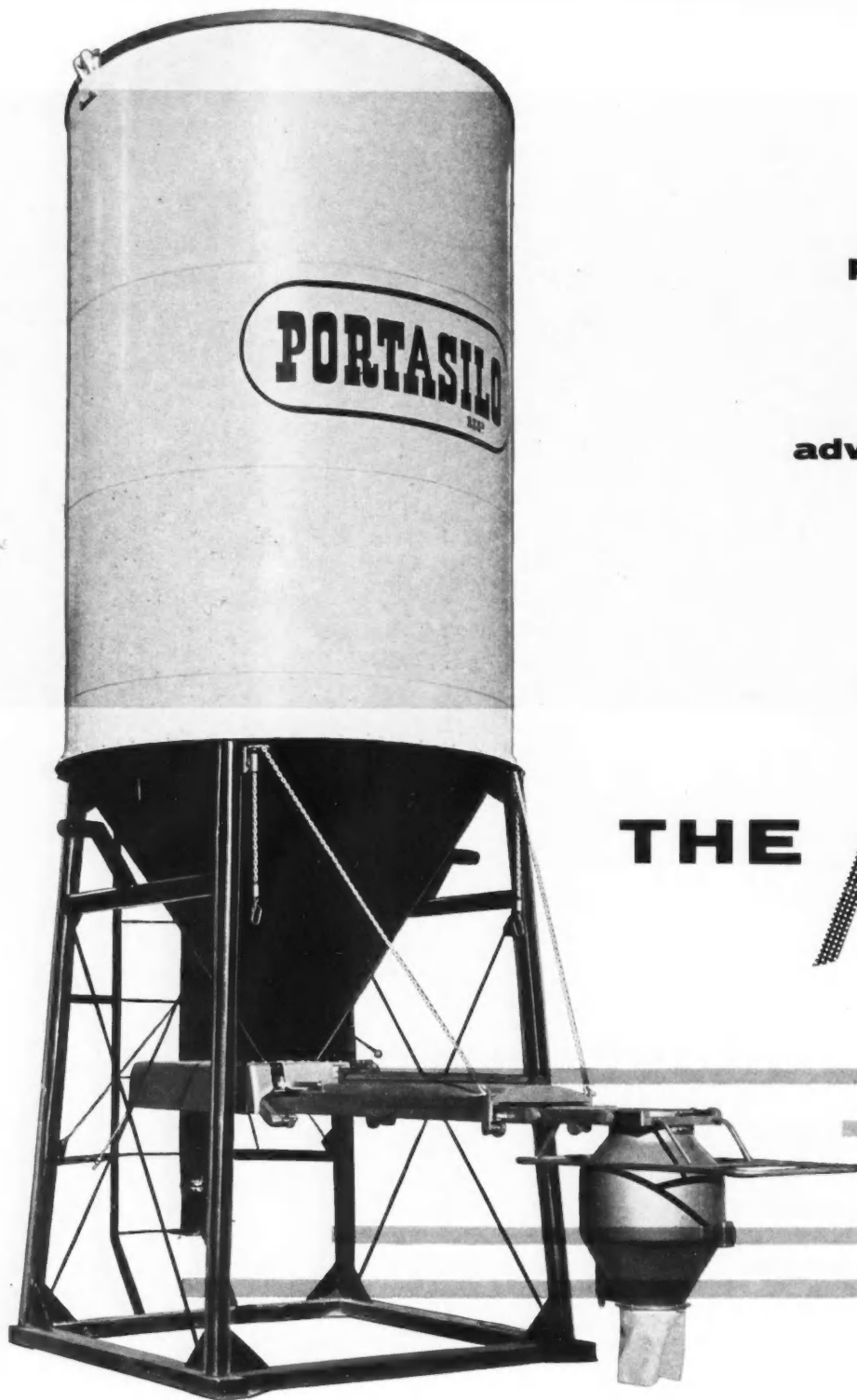


Red Macamit

A PRODUCT OF THE MOUNTSORREL GRANITE GROUP

Mountsorrel Granite Co Ltd
Enderby & Stoney Stanton Granite Co Ltd
Mountsorrel Tarred Macadam Co Ltd
21 NEW WALK, LEICESTER
Telephone: 56682/7
London Office: 29 Dorset Square, NW1
Telephone: AMB 1141/2

The most popular portable bulk cement



**now
provides
even
greater
advantages
with**

THE

New

PORTASILOS from £365

Also available for HIRE

nt silo in the world

5/5/60 THE CONTRACT JOURNAL vii a



TYPE PORTASILO

The only complete range of equipment

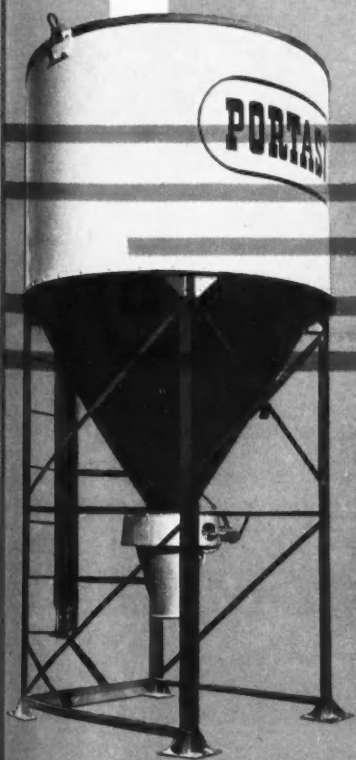
Laminated wood body for ideal storage of cement

Fully automatic, press-button operation if required

Rugged steel base to withstand the toughest site conditions

Pullway weighing equipment – proved on thousands of sites

Backed by unrivalled after-sales service



PORTASILO
REGD.

LIMITED

A new development in the Lightweight Concrete field

LYTAG

lightweight aggregate

LYTAG is used for...

**Structural Grades of
Concrete**

Precast Concrete Blocks

**In situ Roof and Floor
Screeding**

Refractory Concrete

Lyttag provides Resistance to weather,
Low U value, Resistance to fire and
High Compressive strength.

Lyttag is a lightweight aggregate produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

It has been the subject of close scientific scrutiny throughout its development.

A number of technical papers on the different uses of Lyttag are available and will be forwarded upon request.

LYTAG LIMITED

Manor Way, Boreham Wood, Hertfordshire

Telephone: Elstree 2854

A **LAING** COMPANY

YOU WANT SHEETS
TAILOR-MADE TO KEEP LAPS TO A
MINIMUM. WE SUPPLY THEM

Wireweld welded fabric,
manufactured by
G.K.N. Reinforcements Ltd.,
is delivered quickly
to your sites
from our works at
CARDIFF, BIRMINGHAM, WIGAN and GLASGOW

If you want to put steel into concrete *and save money*
get in touch with ¹

G.K.N. Reinforcements Ltd.

(FORMERLY TWISTEEL REINFORCEMENT LTD.)

197 KNIGHTSBRIDGE, LONDON, S.W.7 (KENSINGTON 6311)

MIDDLESBROUGH: (Middlesbrough 3843)

SMETHWICK, BIRMINGHAM (Smethwick 1991)

GLASGOW: (Bell 2444) MANCHESTER: (Ardwick 1691)



BRISTOL: (Bristol 21555)

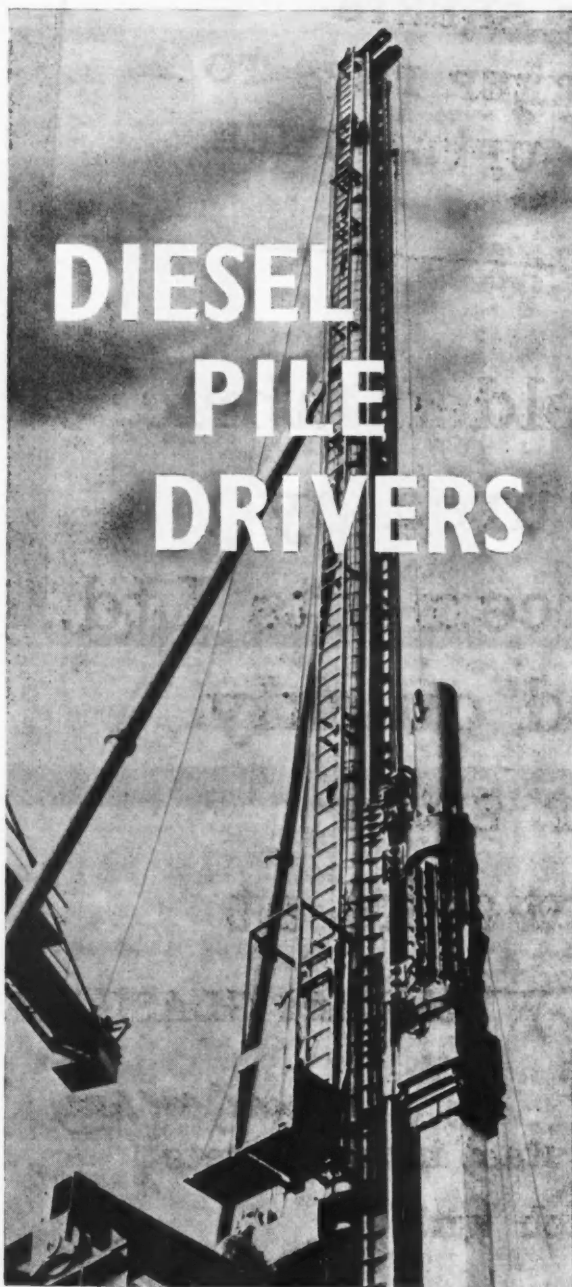
LEEDS: (Leeds 27311)

CARDIFF: (Cardiff 45220)

LEICESTER: (Leicester 25114)

Works: CARDIFF, SMETHWICK, WIGAN & GLASGOW

DELMAG



DIESEL PILE DRIVERS

DIESEL PILE HAMMERS by DELMAG, the first and leading manufacturer, have been in actual use on the job for 20 years throughout the world and are now operating in 59 countries.

SEND FOR FURTHER DETAILS FROM

C.E.T. (PLANT) LIMITED

BURLINGTON WORKS · ABBEY ROAD,
PARK ROYAL, LONDON N.W.10

TELEPHONE: ELGar 6777 (4 lines)

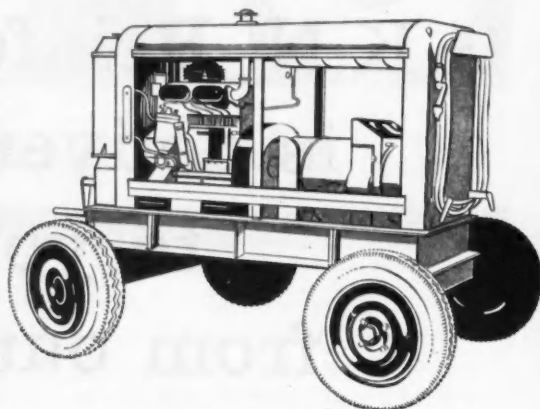
contact

BARKING DEVELOPMENTS

CO. LTD.

for

PLANT HIRE



MUREX ARC WELDING SET

MOBILE COMPRESSORS
PORTABLE COMPRESSORS
EXCAVATORS
MECHANICAL SHOVELS
TRAXCAVATORS
DUMPERS
BULLDOZERS
ROAD ROLLERS
CONCRETE MIXERS

MODERN
DIESEL-DRIVEN
MACHINES

EXPERIENCED
OPERATORS

HOURLY, DAILY
or WEEKLY RATES

PHONE: RIPPLEWAY

2408 & 1245

(3 lines)

ADDRESS: FRESH WHARF
HIGHBRIDGE ROAD
BARKING
ESSEX



Lister

air-cooled diesel

power

1½ to 36 h.p.

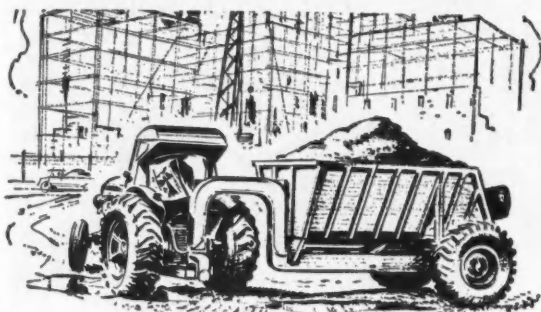
Ask for details of these and other diesel engines up to 1450 h.p.

R. A. LISTER & CO. LTD. Dursley, Gloucestershire Phone: 2371

Telex: 48280. Telegrams: Machinery Dursley

London Office: Imperial House, Kingsway, W.C.2. Phone: Temple Bar 9681

PERRY'S AND THE SHAWNEE POOLE



NEW SHAWNEE POOLE DUMPS FOR IMMEDIATE DELIVERY
Phone us for full details and on-the-site trials.

Used Industrial Equipment:

1952 Dinkum Digger on new type Fordson Major Diesel Tractor. Good tyres, electric starting, lights, operators cab, front mounted hydraulic loading shovel. Price £750

1957 Bray Loader 30. New type Fordson Major Diesel Tractor. Electric lights, trafficators, lights, cab, fitted with 66" bucket with teeth. Reconditioned and Resprayed. Price £1150

1957 Chaseside with Fordson Major Diesel Engine. Cab, electric lights and starting, fitted with 60" bucket with teeth. Price £800

W. HAROLD PERRY LTD.

TRACTOR AND INDUSTRIAL DIVISION
Cranborne Road, Potters Bar, Middlesex
Phone: POTTERS BAR 3211

FOR HIRE PUMPCRET CONCRETE PUMPS

Two Sizes	PC.3	PC.4
Capacities per hour approx.	20-24 cub. yd.	8-10 cub. yd.
Range:		
Horizontal approx.	1500 feet	1250 feet
or Vertical approx.	135 feet	125 feet
Pipeline	6" i.d.	4" i.d.
Available with	Electric Motor	Electric Motor or Diesel Engine

PUMPCRET HIRE COMPANY LTD

4 Stafford Terrace, London, W.8

Telephone: WESTERN 3546

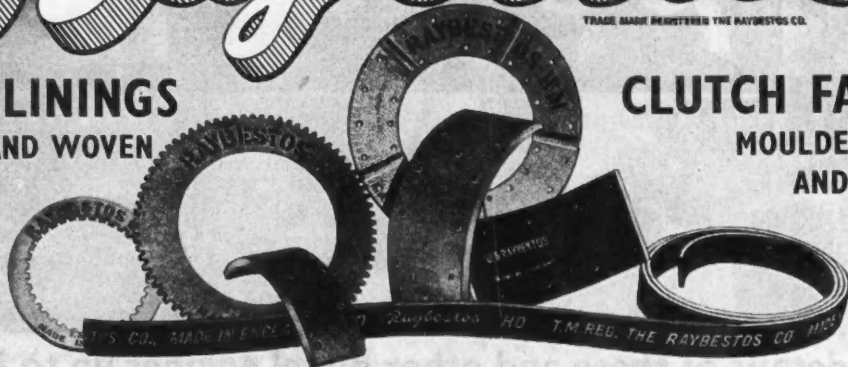
FOR INDUSTRIAL PLANT AND MACHINERY

Raybestos

TRADE MARK REGISTERED THE RAYBESTOS CO.

BRAKE LININGS
MOULDED AND WOVEN

CLUTCH FACINGS
MOULDED, WOVEN
AND SINTERED



MADE IN
ENGLAND

RAYBESTOS-BELACO LIMITED

EVERITE HOUSE · SOUTHWARK STREET · LONDON, S.E.1

Telephone:
WATERloo 7031-4, 3842-7

EXCLUSIVE DISTRIBUTORS OF RAYBESTOS PRODUCTS IN THE EASTERN HEMISPHERE

SMALL CONTRACTORS...



BECOME BIG CONTRACTORS

- when they're helped by Forward finance

'If only I had the plant, I could double my turnover.' If you ever have occasion to say this, then that's the time to find out about Forward finance. Forward Trust helps contractors to expand rapidly by providing finance for new cranes, bulldozers, mechanical excavators, tractors, tipper-trucks, lorries . . . in fact, for contracting plant and machinery of every possible kind.

You can get in touch with Forward Trust at any of its many branches in the major centres of the U.K., or through any one of the 2,700 branches of the Midland Bank, the Clydesdale & North of Scotland Bank, and the Belfast Banking Company.



If you know your business

FORWARD TRUST

will give you credit for it

Forward Trust Limited, 8 Waterloo Place, Pall Mall, London, S.W.1. Telephone: TRAfalgar 1888/9
39 Newhall Street, Birmingham 3. Tel: CENTral 6813. Branches throughout the United Kingdom

A SUBSIDIARY OF MIDLAND BANK AND CLYDESDALE & NORTH OF SCOTLAND BANK

BOGGED DOWN?

YOU SHOULD SEE*
THE DIFFERENCE A **JOHNSON**
1/20 DUMPER MAKES



*Site demonstration without obligation

REAR WHEEL DRIVE Gives outstanding traction and climbing power and keep going when other Dumpers are at a standstill. Drive axle overloading impossible.

ACKERMAN FRONT WHEEL STEERING Heavy duty worm and peg steering to front wheels prevents heaviness or loss of control. Driver has positive, accurate and easy steering under all conditions. The skip is not steered.

UNIQUE ARTICULATED CHASSIS (Patent applied for) Gives constant loading to all wheels at all times and positive traction ensures remarkable climbing power. All wheels follow the ground—whatever the contour. Excellent stability is maintained without spillage of load. High ground clearance is combined with low loading height.

THREE SPEED AND REVERSE GEARBOX Change on the move—high speeds or high traction as required to meet all conditions.

JOHNSON QUALITY PAYS

C. H. JOHNSON (Machinery) LTD STOCKPORT CHES.
Telephone: STOCKPORT 2642/5 Telex 66-297
Telegrams: 'Machinery' Stockport

London Sales and Service Depot: 38/44 Lower Richmond Road, S.W. 14, Telephone: PROspect 7671
Scottish Sales and Service Depot: 55 Arrowsmith Avenue, Glasgow W.3, Telephone: SCOTstoun 6933

FOR DUMPERS • MUD PUMPS
CENTRIFUGAL PUMPS • POWER RAMMERS
POKER VIBRATORS
SCREED VIBRATORS • FIXED & MOBILE CONVEYORS

Rails for sale

100 Tons New Slightly Defective B.H. Rails, 95lb. yard, chiefly 60ft.

100 Tons Slightly Defective F.B. Rails, 109lb. yard, chiefly 60ft. lengths.

100 Tons New Slightly Defective F.B. Rails, 91lb. yard, chiefly 42ft.

100 Tons Good Second-hand B.H. Rails, 80/85lb. yard, B.S. Section, chiefly 60ft.

100 Tons Second-hand Bull Head Rails, 90/95lb. yard, chiefly 44ft. 6in. lengths.

50 Tons New Slightly Defective F.B. Rails, 93.34lb. yard, chiefly 41ft.

50 Tons New Perfect F.B. Rails, 75lb. yard, R.B.S., chiefly 40ft. lengths.

1,500 Tons Stock Rusty F.B. Rails, 75lb. yard, R.B.S., chiefly 30/36ft.

50 Tons New Slightly Defective F.B. Rails, 80lb. yard, Revised B.S. Section, lengths chiefly 40ft.

50/100 Tons Second-hand F.B. Rails, about 60lb. yard, 24ft., 27ft., 30ft. and 45ft.

10 Tons Second-hand Coach Screws, 6½in. x 1½in., Standard Railway Pattern.

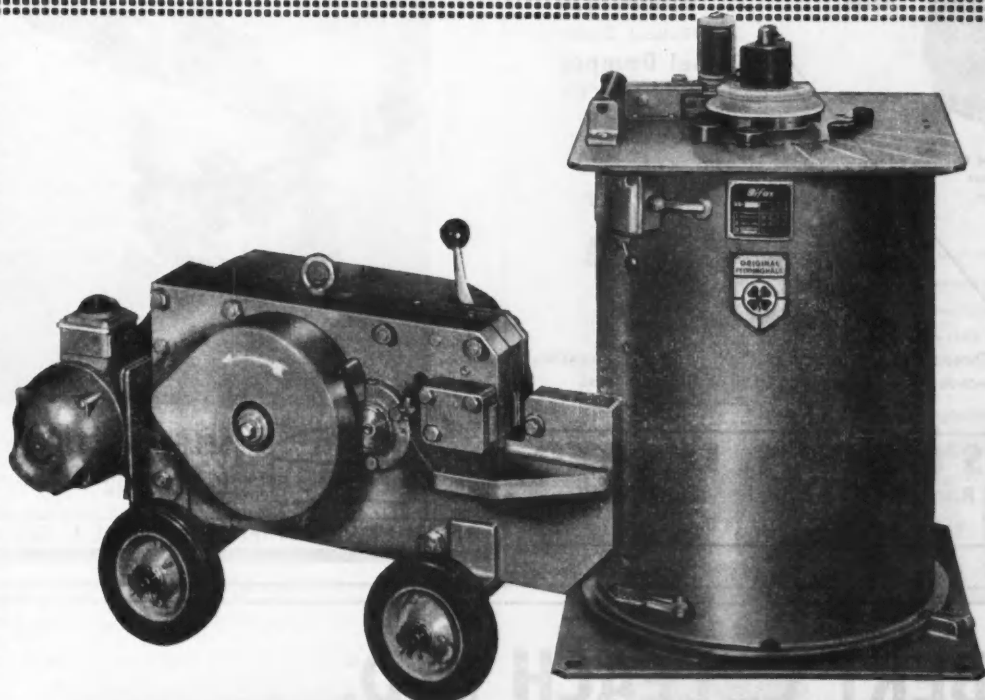
50 Tons Mild Steel Flat, 5in. x ½in., New but Stock Rusty, 15ft. to 26ft. chiefly.

400 Tons Good Second-hand Re-layable B.H. Rails, 90/95lb., in 45ft. lengths.

WARD'S ALSO HAVE LARGE STOCKS OF ALL CLASSES OF OTHER RAILWAY MATERIALS.

THOS. W. WARD LTD
ALBION WORKS, SHEFFIELD

TELEPHONE: 26511 (22 LINES), TELEGRAMS: FORWARD SHEFFIELD



Pedax

Bifax

Intermittent or continuous Cropping selected by hand lever. Cutter blades can be used on eight edges—thus reducing replacement costs. Maximum capacity $1\frac{1}{8}$ " diameter Bar.

Hooks and Angles can be produced alternately, without re-setting control pins. For easier, faster operation, machine is mounted on swivel base. Maximum capacity $1\frac{1}{8}$ " diameter Bar.

Both machines are lightweight, yet are of robust construction

RANGE OF PERFECT BENDERS AND SIMPLEX CROPPERS AVAILABLE FOR HIGHER CAPACITIES AND OUTPUTS

* INFORMATION WITH PLEASURE



WOOD, PRITCHETT & PARTNERS LIMITED

30 / 38 HAMMERSMITH BROADWAY · LONDON · W. 6

Telephone: RIVerside 2224/5/6

Cables: Mechquip, London

Telegrams: Mechquip, London, W.6

AVAILABLE NOW for SALE or HIRE

THE NEW GREENS "GRIFFIN" 8 CWT. VIBRATING ROLLER



Price delivered to
your nearest
railway station.
£336

Many new features,
robust construction,
safe and easy to
control. Full
details on
request.

The New JOHNSON Model 1/20 Articulated Chassis Diesel Dumper ONE TON CAPACITY



Three speed and reverse gearbox, positive transmission,
wonderful manoeuvrability. Full details on request.

LEWIS & LEWIS, LIMITED

School Road, North Acton, London, N.W.10

Telephone: ELGar 6757 (4 lines)

CHADBURNS (LIVERPOOL) LTD.

WE WILL GIVE YOU QUICK DELIVERY



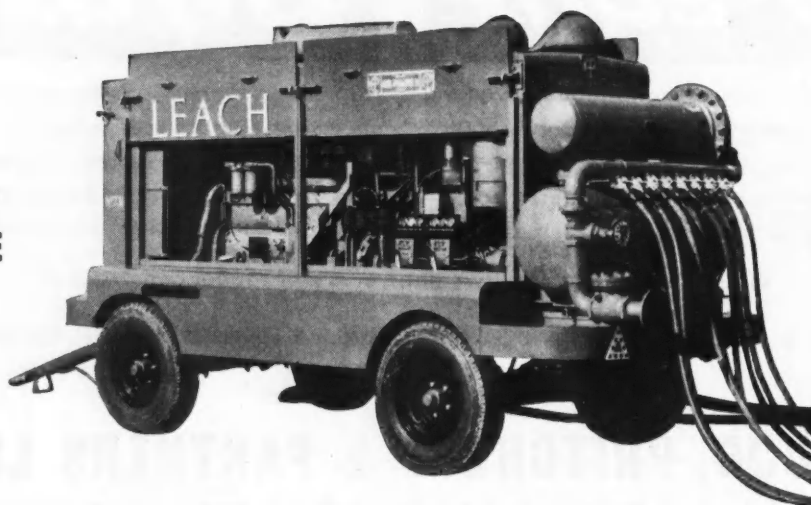
SELF ADJUSTING
LEVEL Ni2

31, BRUNSWICK STREET, LIVERPOOL 2. Central 4844

HUBERT C. LEACH LTD.

"OFF THE SHELF" SERVICE FOR PNEUMATIC TOOLS AND EQUIPMENT

FOR
SALE



FOR
HIRE

AIR PUMPS COMPRESSORS FROM 70 TO 650 C.F.M.

ARMSTRONG-WHITWORTH PNEUMATIC TOOLS AND ACCESSORIES

WRITE FOR DETAILS: HUBERT C. LEACH LTD., HIGH STREET, CHESHUNT, HERTS. Tel.: WALTHAM CROSS 25161 (5 LINES)

JOY'S *INGENIOUS DUAL VALVE*

— GIVES YOU AIR TO SPARE

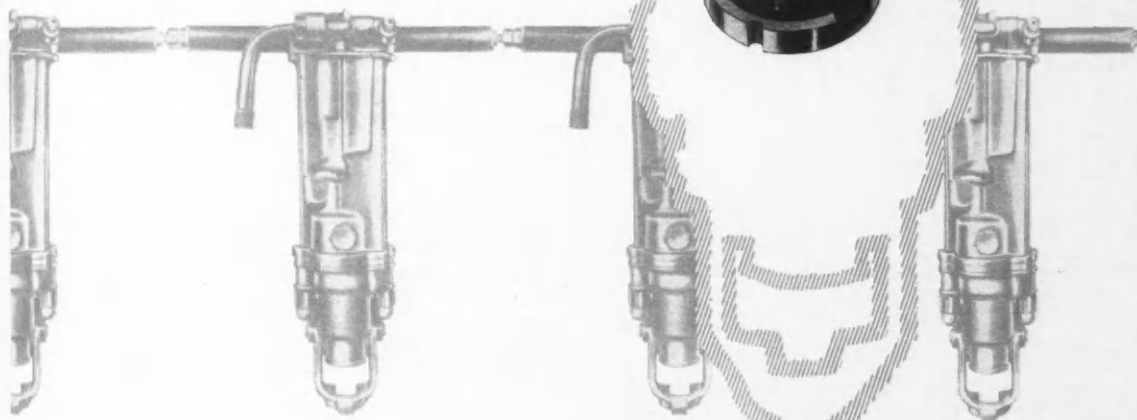
Exclusive to the Joy-Sullivan range of Speedline rock drills and concrete breakers is the Joy Dual Valve — responsible for the miserly air consumption and the great striking power which distinguish the Speedline from any other drill.

The Dual Valve admits *exactly* the right amount of air to each end of the piston to drive it back and forth at *exactly* the right time — preventing live air from softening the blow by shutting off the supply at the end of each stroke. At over 2,000 blows per minute this adds up to a lot of air saved.

Joy Speedline rock drills are available in the 35lb. — 50lb. class, either handheld or with air-leg feed mounting. All are fitted with the exclusive Joy Dual Valve to get more work from less air.



Other important features of the Speedline rock drills are fully described in Publication AD/3



AIR POWER — SUPPLIED & APPLIED BY

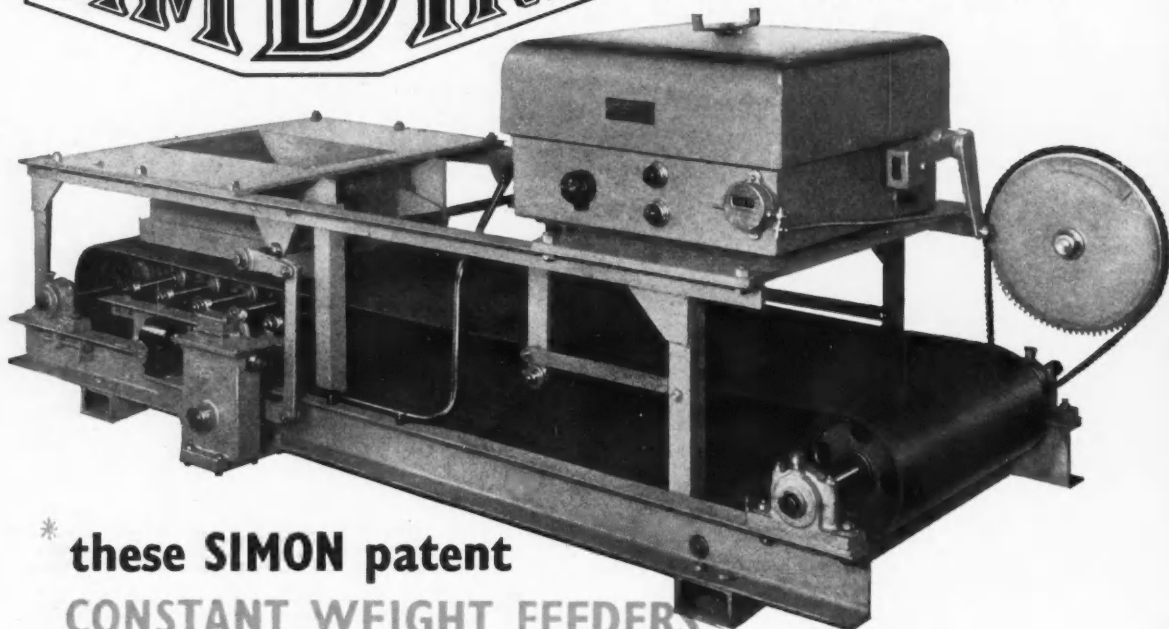
AIR POWER
JOY-SULLIVAN LTD
DIVISION

7, HARLEY STREET, LONDON, W.1. TELEPHONE: LANGHAM 7711

RD/2

SIMDINE

READY MIXED CONCRETE PLANT
CIVIL ENGINEERING PLANT



* these **SIMON** patent
CONSTANT WEIGHT FEEDERS
are the electro mechanical brains
which are built into the

**SIMDINE
CONTINUOUS
BATCHING
and
MIXING PLANT**

for the Ready mixed Concrete
and Civil Engineering
Industries. Designed to
deliver a continuous flow of
materials at any desired rate
per hour irrespective of any
alteration in bulk density or
changes in the ability of
materials to flow

- * **NO WEIGH LEVERS TO PULL!**
- * **NO WEIGH BUTTONS TO PUSH!**
- * **TOTAL ELIMINATION OF
HUMAN ELEMENT IN WEIGHING!**

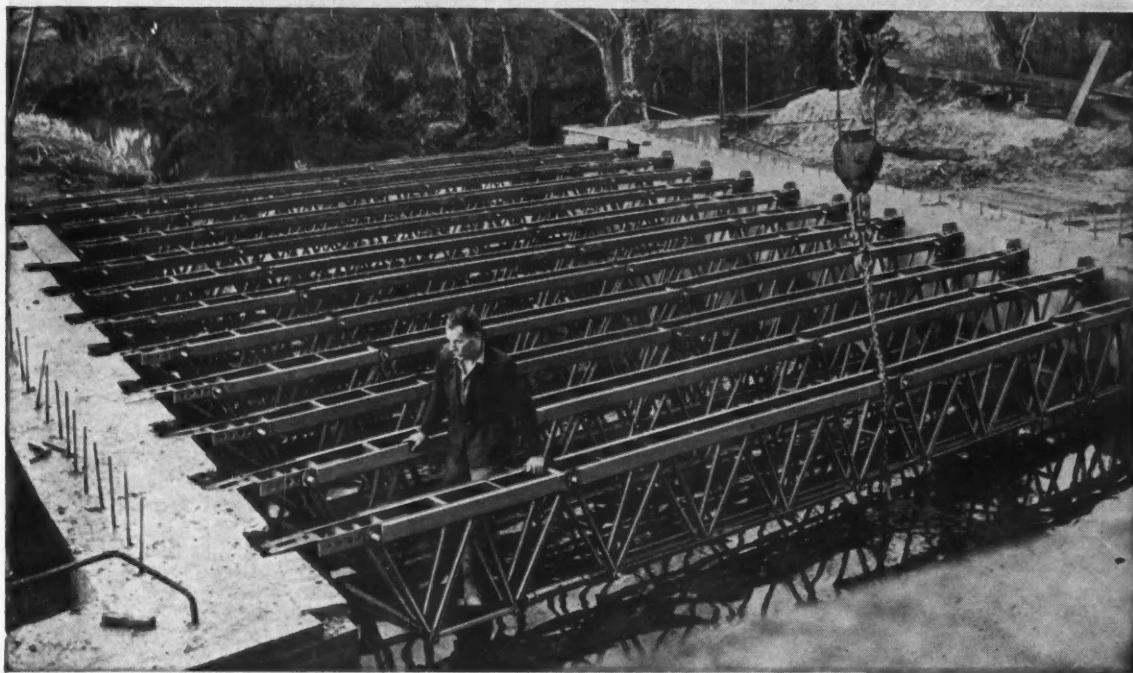
WRITE NOW
FOR FULL DETAILS
OF THIS RANGE OF PLANT
FROM

SIMDINE

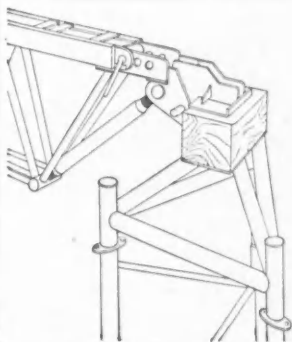
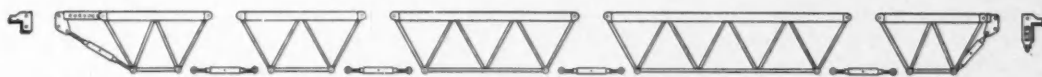
**CHELSEA STREET
NEW BASFORD NOTTM.
tel. NOTTM. 77731**

RAPID METAL
Formwork

D.S.L. 500 GIRDERS SUPPORT 22" OF CONCRETE AT HAWLEY BRIDGE



This was quite a load to support, even for the D.S.L. 500 Heavy Duty Centering Girders and Rapid Metal steel soffit panels that were used. 16 girders at 2' 0" centres each 28' 0" long were swung into position in a few minutes, having previously been assembled on site. The new Hawley Bridge was built by the Hadsphaltic Construction Co. Ltd., for the Hampshire County Council—H. H. Jenner Esq., M.B.E., M.I.C.E., M.I.Mun.E., County Surveyor.



D.S.L. 'Tri-shore' Trestles are designed for use with the D.S.L. 500 Girders where an intermediate support is required. They are simple to erect and fully adjustable. Their lightness and high bearing capacity greatly speeds up large span construction work.

D.S.L. 500 Girders are built up from intermediate sections supplied in lengths of 4' 11", 7' 4 1/2" and 9' 10" and the end sections are extendable from 4' 11" to 6' 2". The units are joined by bolts on the upper sections and adjustable turnbuckles along the lower booms and can be adjusted for use with curved soffits.

RAPID METAL DEVELOPMENTS LTD.

209 WALSALL ROAD, PERRY BARR, BIRMINGHAM, 22b. Telephone: Birchfields 6021
London Office: 47 Victoria Street, S.W.1 - - - Telephone: Abbey 4077
Depot - - - Telephone: Tideway 2625

and at: Liverpool, Glasgow, Swansea, Stockton-on-Tees, Exeter, Fareham, Dublin, Belfast and in Australia

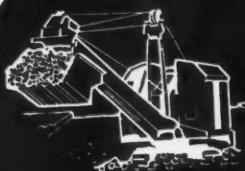
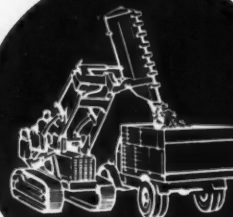
*The Right Plant?
The Right Service?*

RIGHT...



**...RING
GREENHAM
PLANT
HIRE
LIMITED**

ISLEWORTH 1141 LONDON
TOTTENHAM 6803 LONDON
ALDRIDGE 52861 BIRMINGHAM
ATHERTON 1114 MANCHESTER
CENTRAL 3428 LIVERPOOL
AIRDRIE 2070 SCOTLAND
ASHTON-UNDER-LYNE 4312



THE

GREENHAM

GROUP

A COMPLETE SERVICE FOR BUILDERS AND CONTRACTORS

GREENHAM PLANT HIRE LTD. LONDON • BIRMINGHAM • MANCHESTER • LIVERPOOL
ASHTON-UNDER-LYNE • AIRDRIE, SCOTLAND

GREENHAM EQUIPMENTS LTD. LONDON • VIKING 3651

GREENHAM TOOL CO. LTD. LONDON • ISL 4422 • BIRMINGHAM Aldridge 52861

GREENHAM SAND & BALLAST CO. LTD. LONDON • FEL 2285

GREENHAM TYRE CO. LTD. LONDON • HOU 7231

GREENHAM (EAST AFRICA) LTD. P.O. Box 3363 Nairobi, Kenya, B.E.A.

GREENHAM READY-MIXED CONCRETE LTD. LONDON • PEN 6502



PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

(Continued from page 506)

VALES PLANT REGISTER, LTD.
OFFER FOR IMMEDIATE SALE:

CRANES:
NEALS D 1-ton MOBILE, 30ft. jib, Ruston Engines, 1950, pneumatics, £700.
NEALS NM 2-ton MOBILES, 35ft. jibs, Ruston Engines, 1951/52, pneumatics, £1,100/£1,250 each.
JONES KL44 MOBILE, 24ft. jib, Ruston Engine, new 1950, £1,650.
JONES KL44 CRAWLER, 40ft. jib, Ruston Engine, good condition, £1,250.
COLES 2½-ton Diesel MOBILE, on pneumatics, Cantilever jib, Cab, good working order, £900.
JONES Super 40 3-ton MOBILE, 24ft. jib, Lister Engine, pneumatics, £775.
RANSOMES 8½-ton Super MOBILES, on solids, Cantilever jibs. From £2,250 each.
BUTTERS 10-ton Steam DERRICK, 120ft. jib, new 1955, £5,350.
SMITH 7-ton Diesel LOCOMOTIVE, 4ft. 8½-in. gauge, 50ft. jib, S.L.L., new July, 1957, little used. Price on application.
BUTTERS 7-ton ELECTRIC, 100ft. jib, very good condition, £1,750.
MORGAN 7-ton 3-motor Electric DERRICK, 120ft. jib, power bogies, £6,000.
TAYLOR-HUBBARD 7½-ton Steam LOCO, 50ft. jib, 1951, 4ft. 8½-in. gauge, S.L.L., £2,950.
MORGAN 10-ton 2-motor Electric DERRICK, 120ft. jib, 1954, bogies, £4,950.
ANDERSON 10-ton ELECTRIC, 120ft. jib, good condition, £3,200.
MORGAN 15-ton Steam DERRICK, 120ft. jib, new 1958, on bogies, £6,750.
COLES 20-ton 52310 Diesel MOBILE, on pneumatics, 40ft. jib, approx. four years old. Offers.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND VALES FREE PLANT REGISTER.

Further details: 14 Lower Grosvenor Place, London, S.W.1. VICTORIA 7531, 3501, 8080, 9886 (15 lines).

FOR SALE. One P25 Piling TOWER CRANE, with horizontal jib, audible and visible warnings and all necessary safety cut-out devices, also operator's cab. Jib length 99ft.—12cwt., 82ft.—1 ton. Height under hook 100ft. Rail-mounted with sliding axles to negotiate 17ft. 3in. internal radius curve. Remote control. Single hook trolley. Approx. 12 months old. Price, where standing, £3,700.—CIVIL ENGINEERING PLANT, LTD., 52-54 High Holborn, London, W.C.1. Telephone: HOLBORN 0131-0132.

ONE Two-roller ATTACHMENT suitable for fitting to Ferguson 35, International B275 or similar tractor. This attachment is complete with water ballast tanks and sprayers, etc., and is new. No reasonable offer refused.—W. T. BLACKSHAW AND CO., LTD., Curzon Street, Burton-on-Trent.

SPECIAL OFFER. New 1959, J.C.B. HYDRA-DIGGA/LOADALL, with power steering. For quick sale, first offer list price less £500. Special delivery terms.
DIAL-MEC, LTD.,
47 Castle Street, Hertford, Tel.: Hertford 2456.

THE South Coast's most efficient plant hire company. **K. MIKOLAY AND SON, LTD.**, Station Approach, Newhaven. Telephone: Newhaven 344. All Earth-moving Equipment, HD5G Excavator, Bulldozer, J.C.B. Keen hire rate. Prompt service.

FOR IMMEDIATE HIRE. Eight TD24 and Six HD20 TRACTORS, with Bulldozers and Scrapers, all machines in excellent condition, as new.—LEVERETT, Norwich Road, Besthorpe (Tel.: Attleborough 3156/7), Norfolk.

ALLEN-PARSONS TRENCHER, 12.21. 1951 model. First-class order throughout. £1,250.—Apply: **WILLIAM BECKER AND SONS, LTD.**, Great Crosby, Liverpool, 23.

J. J. JOHNSTON AND CO., LTD.

OFFER FOR SALE:
Several Rapier ¾ cu. yd. Diesel EXCAVATORS, new 1953, all equipments, very good condition, £950.
Rapier Model 414 ¾ cu. yd. EXCAVATOR, new 1956, four-purpose equipment, £2,150.
Drott Skid SHOVEL, BTD6, September, 1957, Cab, new type tracks, £2,000.
Drott Skid SHOVEL, BTD6, March, 1958, Cab, good condition, £2,150.
Arpic 4-tool Portable Diesel COMPRESSOR, pneumatics, new 1955, completely overhauled, £665.
C.P.T. 2-tool Portable Diesel COMPRESSOR, in working order, £150.
Rapier 2/3-ton Standard Mobile CRANE, Petrol, solids, good working order, £450.
Blaw Knox 2½-yd. TRUCK MIXER, on Bedford 7-ton chassis, new 1957, £2,200.
Several R.M. 14 cu. ft. Twin Bucket SWING WEIGH-BATCHERS, £80 each.
Liner 15cwt. Diesel DUMPERS, new December, 1958, very good condition, £275.
Benford 22½cwt. Mark 7 DUMPERS, new October, 1958, very good condition, £325.
Several Winget 7/5 CONCRETE MIXERS, with Diesel Engines, good condition, £150 each.
Benford 18/12 Reversing Drum MIXER, with Weigh-gear, Scraper and maker's reconditioned Petter AVA2 Diesel Engine, new December, 1957, £875.
Several S. and P. Diesel Closed Drum 14/10 and 10/7 Winget 14/10T MIXER, new 1956, Petter AV2 Diesel, good order, £325.
BLAW KNOX 14/10T MIXER, new 1956, AV2 Diesel, £285.
Rapier Centrifugal PUMPS, good working order—3in., Diesel, £45; 2in., Petrol, £25.
MONO-RAIL Petrol or Diesel WAGONS, £125; Rails, £3; Stands, 30s.
Mobile and Portable HOPPERS, 12 to 40 cu. yd. from £300.
Several A.C.E. 15cwt. Diesel PLATFORM HOISTS, good condition, £150 each.

Further Details:
271 Uxbridge Road, London, W.12.
Tel.: Shepherds Bush 6941.

PLANT FOR SALE.

One 8 10-ton Wallis-Stevens ROLLER, manufactured 1950. Very little use (ex Ministry), £1,450.
One 10RB EXCAVATOR, choice of equipment, Serial No. 12800, £1,100.
Two 10-ton Aveling-Barford ROLLERS, manufactured 1937 approx. single-cyl. Ruston Engines, £500 ea.
One Air Pumps 2-Tool COMPRESSOR, mounted on Bedford chassis, complete unit, £400.
HEAVERS PLANT HIRE (CHICHESTER), LTD., Shopwyke Road, Chichester, Sussex. Telephone 2929.

FOR SALE. SHEEPSFOOT and PYRAMID ROLLERS, double and single. Cheap to clear.
Two new DEEP WELL PUMPS, QUARRY PLANT, etc. ROADS AND DRIVES, LTD.,
Lisle Avenue, Kidderminster.

A. E. FARE (PLANT HIRE), LTD., offer for SALE or HIRE wide range of all types of CONTRACTORS' PLANT, including motorway and bridge construction equipment. Special terms for long hires. All plant available on option to purchase on attractive terms.—Tel. Westbury (Wilts.) 356.

FOR SALE. Two Johnson 1 cu. yd. Diesel DUMPERS. Overhauled.
DUDLEY VALE, LTD.,
3 Buckingham Place, London, S.W.1. VICTORIA 0252.

WANTED. BTD6 or Track Marshall, with Dosing Equipment; and TRACK CHAINS and BOTTOM ROLLERS for TD9.—Particulars to IAN C. CRISP (PLANT HIRE), LTD., 117 Baldock Road, Letchworth, Herts.

A. LONG AND CO., LTD., OFFER FOR SALE:

Butters 10-ton Steam DERRICK CRANE, oil-fired, 120ft. jib, with bogies.
Woodfield 85ft. PILE FRAME, with Winch and Boiler.
B.S.P. 70ft. PILE FRAME, with Winch and Boiler.
Buildmaster BDK150 TOWER CRANE, 99ft. jib.
Liebherr FA04 TOWER CRANE, 96ft. jib.
Rex 285 CONCRETE MIXER, with 30-h.p. Diesel Engine.
Aveling CD3 CALFDOZER.
Caterpillar D2, D4 and D7 TRACTORS, various equipments.
Fowler Challenger 3 TRACTORS, various equipments.
Flat 55L TRACTOR, with Hydraulic Angledozer.
Allis-Chalmers HD10 TRACTOR, with Hydraulic Angledozer.
Vickers VR180 TRACTORS, with P.C.U. and Hydraulic Angledozer.
Vickers VR180 TRACTORS, with 12/13yd. Onions Scrapers.
Vickers Vigor TRACTORS, with 12/13yd. Onions Scrapers.
Euclid 12/16yd. SCRAPERS, with Rolls-Royce and Leyland Engines.
Ruston Model 2 EXCAVATORS, all equipments.
Ruston 21RB EXCAVATOR, with Dragline and Shovel.
Lorain Models 40, 75, 77 and 80 EXCAVATORS, with Dragline.
Domini 4½yd. EXCAVATOR, Ford Diesel, all equipments.
B.S.P. 8½in. x 11in. Steam Double Drum PILING WINCH.
B.S.P. 25cwt. Petrol Double Drum PILING WINCH.
2,500lb. x 24in. dia. Flanged Steel VENTILATING PIPE.
24in. x 25lb. TRACK, mounted on Steel Sleepers.
2,000yd. brand new 3-core 6.6-kV P.I.L.C. CABLE.
Ruston EXCAVATORS, all sizes, all equipments.
Allen TRENCHERS.
Vickers and Caterpillar TRACTORS.
Butters DERRICK CRANES.
Smith Steam LOCO. CRANES.
Muir-Hill DUMPERS.
Agents and Distributors for: Air Pumps Reciprocating and Rotary Compressors; Armstrong Whitworth Kue Ken Crushers; Albaret Compaction Rollers; Crose Pipeline Equipment.

45 Parliament Street, Westminster, S.W.1.
Telephone: Whitehall 5064/5, 6577.
Cables: Avelong, Parl. London.

PLANT AND EQUIPMENT FOR DISPOSAL. CRANES; FORK LIFTS; HANDLING, LIFTING AND CONVEYING EQUIPMENT; AIR COMPRESSORS; SAND BLAST; FANS; BLOWERS; PUMPS; MACHINE TOOLS AND ACCESSORIES; CONTAINERS; PLANT AND SPARES; ENGINES; BOILERS; DYNAMOMETER; 3-phase MOTORS; CLOTHES LOCKERS AND CABINETS; TRANSFORMERS and numerous other ITEMS. Detailed lists on request.—R.D. AND M. ENGINEERING CO., Sandy Lane, Dukinfield, Cheshire. Telephone: ASHTON-under-Lyne 2871/2.

CHALLENGER I Fowler TRACTOR for SALE. No. 4460210, fitted with Bray Hydraulic Angledozer equipment. Purchased 1955. Very good condition, has not been hard worked.—JOHN W. PEARSON AND CO., Stainton, Middlesbrough. Tel.: Hilton-in-Cleveland 247.

FOR SALE. Drayton 1yd. DUMPERS, year 1959, in very good condition, £385 each.—GENERAL ROADWORK, LTD., Mitcham Road, Croydon. Tel.: Thornton Heath 8252.

FOR SALE. New 8cwt. Greens Griffin Vibratory ROLLERS. Immediate delivery from stock.
WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 12. Tel. 639081 (10 lines).

EXCAVATOR for SALE. Lima 802, using 1½yd. Dragline Bucket, Serial No. 32423. Can be seen working. Offers.—DRAKELOW GRAVEL CO., LTD., Drakelow, Burton-on-Trent. Telephone 5481/2.

FOR HIRE OF MODERN DIESEL
COMPRESSORS
IN THE MIDLANDS
J. W. COX PLANT HIRE LTD.
QUARRY BANK, BRIERLEY HILL, STAFFS.
Phone: CRADLEY 66695

HERGARTH
HYDRAULIC MACHINERY SPECIALISTS

Main **JCB** Distributors

York C.B. E. and N.R. Yorkshire, and Lincs.
New J.C.B. HYDRA-DIGGA/LOADALL 303, with power steering, ex stock £2,368
New HOWARD SUPER TRENCHER, ex stock £2,575
PIPELAYER for same £40
New SHAWNEE POOLE 7 cu. yd. 9.9-ton DUMPER £2,100
J.C.B. Hydraulic EXCAVATOR and Loading Shovel £1,200
J.C.B. Hydraulic EXCAVATOR and Loading Shovel £950
1956 FOWLER 3 DIESEL CRAWLER £1,750
J.C.B. Mark 1 EXCAVATOR (without Buckets) £750
ASTELL WATTS TRENCHER on Ferguson Diesel £650
SMITH 2/10 EXCAVATOR, Backacter and Skimmer £350
1947 ALLIS-CHALMERS CRAWLER £550
HOWARD 3ft. TRENCHER, Fordson T.V.O. £400
BARFORD-HENDERSON TRENCH DIGGER, Fordson Major T.V.O. £150
DINKUM DIGGER, overhauled, complete with Buckets, etc. £800

Guaranteed New and A.1 Reconditioned and Second-hand EXCAVATORS, Draining and Ditching Hydraulic EXCAVATORS.

PART EXCHANGE AND HIRE PURCHASE.

Main Distributors for SHAWNEE POOLE: York C.B. and E. and N.R. Yorks.

HERGARTH of YORK
Tel.: YORK 55181/2.



BTD6, fitted with hydraulic bullgrader equipment. Very good condition. Choice from	£1,200
BTD6, fitted with Drott B6K3 and 1 cu. yd. standard bucket, first-class condition. Choice from	£2,000
Bray Loader, Model BL30, hydraulic steering, good working order	£1,200
County Crawler with Bray hydraulic angledozing equipment, only 1,000 hours, complete with Conder Scraper and Cab. Excellent throughout	£1,850
TD6 base machine	£250
Bucyrus Erie 6yd. Scraper	£400
Ruston Bucyrus S-67 6yd. Scraper	£400

Above subject to remaining available

SAVILLE (TRACTORS) LIMITED

HARVESTER HOUSE
STRATFORD-UPON-AVON
Tel. 4242 (15 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

FOR SALE.

Caterpillar D4 and Birtley Dozer, reconditioned, £1,500.
Caterpillar D2, fitted L.P.C. Dozer, £650.
Ailis-Chalmers HD7, fitted Baver Hydraulic Angle-dozer and Double Drum Winch, reconditioned, £950.
International TD18, fitted Dozer and Winch, £650.
International TD9, fitted Dozer, £450.
International TD9, fitted Carco Winch, £350.
Le Tourneau 4yd. SCRAPER, £265.
Broomwade COMPRESSOR, 3-tool, Petrol, £165.
Johnson COMPRESSOR, 2-tool, Petrol, £75.
Dinkum DIGGER and Two Buckets, as new, £350.
Ailis-Chalmers HD7, Tracks new.
A.E.C. TRACTOR UNIT, fitted Gardner SLW, Hands, 15-ton, and Well Trailer, £450.
OIL: H-g-grade Engine and Gear Oil in 4½-gallon Jerry cans, 25s. each.

ROBIN BOSWORTH.

Tel.: Stoke Saint Milbro 237. Nr. Ludlow, Shropshire.

CRANE HIRE in the South-west: Latest type Mobile and Crawler Machines. Max. lift 12 tons. Jib lengths to 70ft. or 60ft., with 10ft. Fly Jib. Hire or Contract.—GRANGE PLANT LTD., Honiton, Devon. Telephone: Broadhembury 330-355.

FOR SALE or HIRE. P20 PORTASILOS, 20-ton capacity, new 1958 and 1959. Really excellent condition.

DUDLEY VALE, LTD.,

3 Buckingham Place, London, S.W.1. Victoria 0252.

WANTED. ALL TYPES OF CLETRAC TRACTORS, any condition.—State Serial No. and price required.—THORNTON & CO., LTD., Uckfield, Sussex. Telephone 178 (3 lines).

REQUIRED. Cleveland TRENCHERS, part machines and spares, in any condition.—GROCK AND DAY (PLANT HIRE), LTD., Mayfield Road, Leicester. Tel.: Leicester 58148.

FOR SALE or HIRE. New Greens 8cwt. Vibratory ROLLERS. Ex stock delivery.—WILLIAM R. SELWOOD, LTD., Chandler's Ford 2275 and Exeter 72375.

FOR SALE, OVERLOADER. David Brown, on crawlers, late 1957 model, only worked 1,900 hours.—Tel.: MIT 4082.

FOR SALE or HIRE. Smith 1-ton Diesel LOCO. CRANE for standard gauge.—A. E. FARR (PLANT HIRE), LTD., Westbury, Wilts. Tel. 356.

DINKUM DIGGERS.

1954 machine, in excellent condition, overhauled transmission, pins and bushes, Skyhi Front Shovel. Guaranteed, £745.
1954 machine, fitted with latest type Hydraulic Dozaloda. Every bit as good as 1957 machine. Guaranteed, £900.
1955 machine, fitted latest type Dozaloda. Requires small amount overhaul, which can be done in user's workshop. As seen, £800. Guaranteed, £950.
1958 Dinkum Major, yet another outstanding offer, 14ft. digging depth, fastest output of any similar machine. Good tyres all round. Engineer's report and guarantee on request. £1,750, ex Hertford.

Special delivery terms.

DIAL-MEC, LTD.,

47 Castle Street, Hertford. Tel.: Hertford 2456.

SIMON HYDRAULIC PLATFORM. Model IG54, for SALE. Mounted on Bedford 5-ton long-wheelbase chassis, first registered July, 1959, mileage 500. The machine will carry a load of 300lb. in the cage to a height of 50ft. and is automatically controlled from either the cage or the ground. Can be seen by appointment. — For further details, apply to PALMER'S TRAVELLING CRADLE AND SCAFFOLD CO., LTD., 3 Woodside Green, London, S.E.25. Tel.: Addiscombe 7721.

FOR SALE. a good modern Lima 2400, with both equipments, and in very good order. PLANT SALES, LTD., 25 Castlereagh Street, London W.1. Telephone: PAddington 2663/5.

WANTED: CATERPILLAR TRACTORS. TRAXCAVATORS and EQUIPMENTS; not more than five years old.—Phone Rothwell 3258, or write JAW BONE WORKS, Wood Lane, Rothwell, Yorks.

FOR SALE. 3-ton Rushworth Electric Derrick CRANE, 100ft. jib, new 1953, in first-class condition. Lying Notts. area.—Write Box P.1656, "The Contract Journal."

MOBILE CRANES FOR SALE, HIRE and SPARES. Coles, Ransome, Morris, etc.—ROBERT DIXON LTD., Authorised Coles Repairs, Hunsdon, Herts. Tel.: Stanstead Abbots 301/3.

WANTED. 5/6-ton Coles Mobile Truck-mounted CRANE, fully slewing. HUGH LEGGAT, LTD., Gladstone Avenue, Barrhead, Glasgow.

LIGHT RAILWAY MATERIAL FOR SALE.

6,000yd. 25lb. B.S.S. TRACK, 24in. gauge. 500yd. of new 30lb. B.S.S. RAIL. 1,000yd. of 20lb. B.S.S. TRACK.
New Lister Diesel LOCOMOTIVES, from £434. with Dorman Engine, 3½ tons, 24in. gauge.
Two Montana Diesel LOCOMOTIVES, 2½ tons, 24in. gauge.
One Simplex Diesel LOCOMOTIVE, with National Engine, 2½ tons, 24in. gauge. Completely overhauled.
One 1½-ton Lister Petrol LOCO, J.A.P. Engine, completely overhauled, 24in. gauge.
14 U-shaped TIPPING WAGONS, 24in. gauge, 20 cu. H. capacity.
20 yd. TIPPING WAGONS.
Four 2 cu. yd. 24in. gauge Rugga TIPPING WAGONS. Maco Pressed Steel Lay-on SWITCHES.
Maco Pressed Steel Lay-on TURNABLES.
POINTS and CROSSINGS and TURNABLES.
WHEELS and AXLES, all gauges.
Maco AXLEBOXES.
PLATELAYERS' BOGIES, 4ft. 8½in. gauge.
M. E. ENGINEERING, LTD.,
457 Finchley Road, London, N.W.3. Telegrams: Mengillm, London. 'Phone' HAMstead 7461-2-3.

FOR SALE.

1958 Whitlock Dinkum Major EXCAVATOR and Power Shovel, complete with Buckets, £1,800. Ailis "Acos" Hydraulic EXCAVATOR, complete with Buckets, £325.
1956 15cwt. Liner Roughrider Diesel-driven DUMPER, £125.
Diesel-driven LOADING SHOVEL, new 1953, in first-class condition, £325.
HOLDSWORTH (YORKSHIRE), LTD.,
10 Park Square, Leeds, 1. Tel.: Leeds 32861.

OFFERS invited for 7-ton 100ft. jib Butters Single-motor Scotch DERRICK CRANE with A.C. equipment. New 1925, major overhaul by makers five years ago. Inspection whilst working, Hertfordshire. Write Box P.1748, "The Contract Journal."

WANTED. 10-ton Electric DERRICK, with 120ft. stick, two motors, complete with grabbing gear. Good price for suitable machine.—Details to CIVIL AND MARINE, LTD., Rowhedge, near Colchester, Essex.

FOR SALE. Gallion GRADER, 101 Model, in first-class condition.—Can be seen at REED AND MALLIK'S Plant Depot, Urray, Muir of Ord. Tel.: Urray 237.

FOR HIRE

Modern Shovels, Excavators, Tipplers

Keen rates quoted for Site Clearance and Excavation at all-in rates

All Road and Building aggregates supplied

R. BARKER (Peckham) LTD.

10a Ellery Street, Peckham, S.E.15

NEW CROSS 3337 PITS—BRASTED 586

CAN YOU SPOT THIS WEEK'S special bargain

1954 DINKUM DIGGER, with 24in. Bucket, on Fordson Major Diesel Tractor, with new remould 11 x 36 rears, good 600 x 19 fronts, L. and S. Operator's Cab, fitted with Front-mounted Skyhi Hydraulic Loading Shovel with ¾ cu. yd. Bucket. Overhauled, resprayed £795
Howard Rotary Hoe TRENCHER, powered by Perkins P6 Diesel Engine, with Rotaped Tracks and Tile Layer. Cuts drainage trench 6in. wide, 42in. deep. Has had over 5185 spent on its overhaul, is complete and ready for immediate work. £950
Howard Rotary Hoe TRENCHER, powered by Ford 4D Diesel Engine, with Rotaped Tracks and Tile Layer. Cuts a drainage trench 6in. wide, 42in. deep. Rebuilt at a cost of over £350. Ready for immediate delivery at £1,350
Arms Model M.A. TRENCH DEVIL. Demonstration machine. Price £495
Bray BL430T (July, 1959) 4-wheel-drive Hydraulic LOADING SHOVEL, with Torque Converter. This machine has been used for demonstration purposes only. It is powered by the 52-h.p. Power Major Diesel Engine, with electric starting and lighting. Operator's full vision comfort Cab, with 1½ cu. yd. rated capacity (1½ cu. yd. struck capacity) Hydraulic Crowd Action Bucket, mounted on heavy-duty 6-ply 14.00 x 24 rear pneumatics and 10.50 x 16 12-ply front pneumatics. This machine, which is the very latest thing in four-wheel-drive loading shovels, is offered in showroom condition at £2,500

1958 Bray BL430 4-wheel-drive LOADING SHOVEL, with 1 cu. yd. Crowd Action Bucket. Operator's full vision comfort Cab, powered by Ford 4D Industrial Diesel Engine, with L. and S., on very good 14.00 x 24 and 8.50 x 20 pneumatics. Rebuilt at a cost of over £400 £1,750

1956 Bray BL30 Hydraulic LOADING SHOVEL, with 1 cu. yd. capacity Crowd Action Bucket, powered by Ford 4D Diesel Engine, with L. and S., Operator's comfort Cab, and on good 14.00 x 24 and 7.50 x 20 pneumatics. £875
Bray HL27 Hydraulic LOADING SHOVEL, with 1 cu. yd. Crowd Action Bucket, powered by Ford 4D Diesel Engine, with L. and S., new remould 14 x 24 rear pneumatics and good 7.50 x 20 fronts. Overhauled, resprayed £650
Chaseside ½ cu. yd. capacity Cable-operated LOADING SHOVEL, powered by the Fordson Major petrol start paraffin running engine. This Loading Shovel has been completely overhauled throughout at a cost of over £160. It is an ideal machine for a demolition contractor or similar heavy-duty work. Price, complete with Demolition Bucket £250

1958 Bray BL430 4-wheel-drive LOADING SHOVEL, with 1 cu. yd. Crowd Action Bucket, powered by Ford 4D Diesel Engine, with L. and S., on very good 14.00 x 24 and 8.50 x 20 pneumatics. Rebuilt at a cost of over £400 £1,750

1956 Bray BL30 Hydraulic LOADING SHOVEL, with 1 cu. yd. capacity Crowd Action Bucket, powered by Ford 4D Diesel Engine, with L. and S., Operator's comfort Cab, and on good 14.00 x 24 and 7.50 x 20 pneumatics. £875
Bray HL27 Hydraulic LOADING SHOVEL, with 1 cu. yd. Crowd Action Bucket, powered by Ford 4D Diesel Engine, with L. and S., new remould 14 x 24 rear pneumatics and good 7.50 x 20 fronts. Overhauled, resprayed £650
Chaseside ½ cu. yd. capacity Cable-operated LOADING SHOVEL, powered by the Fordson Major petrol start paraffin running engine. This Loading Shovel has been completely overhauled throughout at a cost of over £160. It is an ideal machine for a demolition contractor or similar heavy-duty work. Price, complete with Demolition Bucket £250

ERNEST DOE & SONS LTD.

Ulling, Maldon, Essex

Telephone: Hatfield Peveril 311 (Night 319).

FOR LIMAS

PLANT SALES LTD.,

25 CASTLEREAGH STREET, LONDON, W.1

Telephone: PAddington 2663-4

WEATHERILL
HYDRAULIC

F. E. WEATHERILL LTD

USED EQUIPMENT DIVISION

We can meet your Used Loading Shovel requirements either at our main Works at Welwyn Garden City or our Depots at Walsall, Manchester and West Hartlepool.

1959 WHITLOCK DOZALODA, powered by Fordson Diesel Engine, fitted with 1½ cu. yd. Scoop, complete with Lighting and Driver's Cab £675

1959 WEATHERILL MICROLODA, Type P2, pedestrian-controlled Loader, ex demonstration model £550

1958 WEATHERILL Type 2HCRA, with ¾ cu. yd. Scoop, powered by Fordson Diesel Engine. This machine has been overhauled and repainted. £1,150

1957 CHASESIDE LOADMASTER 700, powered by Fordson Diesel Engine, fitted with 1 cu. yd. Scoop and lighting equipment, power steering. Very reasonably priced. £1,200

1957 MERTON OVERLOADER, Fordson Diesel Engine, with 1 cu. yd. Scoop with digger teeth, double acting main rams, lighting equipment, tyres good. £1,180

1956 WEATHERILL LOADER, Type 2H, with ¾ cu. yd. Scoop. Fordson Diesel Engine. £750

1955 WEATHERILL LOADER, Type 2H, with Fordson Diesel Engine, 1400 x 24 tyres at rear. £650

1955 WEATHERILL LOADER, Type 2H, with Fordson Diesel Engine, ¾ cu. yd. Scoop, new engine and clutch few months ago, 1400 x 24 tyres at rear, all tyres in nearly new condition. £600

1954 CHASESIDE Cable-operated LOADING SHOVEL, with Fordson Diesel Engine, fitted 1½ cu. yd. Scoop, 7.50 x 20 front, 1200 x 24 rear tyres, all good. £450

1957 CHASESIDE LOADER, Model 500, with ¾ cu. yd. Scoop and Bulldozer Blade attachment, powered by Fordson Diesel Engine. £800

1958 WEATHERILL Hydraulic LOADER, Front-wheel drive, Type 14H, with ¾ cu. yd. Scoop, Fordson Diesel Engine, 10.50 x 16 steering and 1400 x 24 driving wheels, Driver's Cab and Towing Hitch. £1,200

Ask for fuller details of these and other machines from our most comprehensive stock.

F. E. WEATHERILL LTD

USED EQUIPMENT DIVISION

Tewin Road,

WELWYN GARDEN CITY,

Herts.

Tel: Welwyn Garden City 4221-5

USED
EQUIPMENT
with a
GUARANTEECHASESIDE
USED EQUIPMENT
DIVISIONIF YOU REQUIRE A RELIABLE
USED MACHINE, YOU NEED
LOOK NO FARTHER THAN

Come and inspect our full stock, for, in addition to the machines listed below, we have machines at prices to suit all requirements.

HYDRAULIC MACHINES:

Stock No. 1045.—1956 LOADMASTER. Net ex-works Diesel Engine, Cab, Lighting, very good tyres. 30 days' warranty. Seen Hertford £1,625

Stock No. 1086.—1956 LOADMASTER 500, Fordson Diesel Engine, Open-sided Cab, Lighting, 1 cu. yd. Scoop, very good tyres (rears 14.00 x 24). 30 days' warranty. Seen Hertford £1,725

Sk.1132.—1956 LOADMASTER 800TC, Fordson Diesel Engine, Cab, Lighting, 1 cu. yd. Scoop. Excellent machine on very good tyres. 30 days' warranty. Seen Hertford £1,725

Sk.1139.—1956 LOADMASTER 500, Fordson Diesel Engine, Open-sided Cab, Lighting, 1 cu. yd. Scoop, very good tyres (rears 14.00 x 24). 30 days' warranty. Seen Hertford £1,200

Sk.1110.—1955 LOADMASTER 510, Perkins L4 Diesel Engine, Open-sided Cab, Lighting, ¾ cu. yd. Scoop, good tyres (front new, rears 14.00 x 24). Very good machine. 30 days' warranty. Seen Nottingham £925

Sk.1176.—1956 LOADMASTER 500, Fordson Diesel Engine, Open-sided Cab, 1 cu. yd. Scoop, good tyres (rears 13.00 x 24), ready approx. 14 days. 30 days' warranty. Seen Hertford £1,000

Sk.1157.—1955 WEATHERILL 2HCRA, Fordson Diesel Engine, Cab, 1 cu. yd. Scoop. 30 days' warranty. Seen Hertford £900

SK.1081.—1954 CHASESIDE Demon Loading Shovel, Fordson Diesel Engine, ¾ cu. yd. wide Scoop, tyres good (rears 14.00 x 24). Overhauled and repainted. Splendid machine at a bargain price. 30 days' warranty. Seen Hertford £500

Sk.952.—1949 CHASESIDE ½ cu. yd. Loading Shovel, Fordson Major Petrol Engine and running order. Seen Glasgow £85

SK.1179.—1953 CHASESIDE Automatic Moving Jib, 1½ cu. yd. Loading Shovel, Fordson Diesel Engine, in good running order. Seen Hertford £315

SK.1012.—1956 FERGUSON Tractor, Diesel Engine, Horndraulic Front End Loader with Bulldozer, 9 cu. ft. Scoop. Machine in very good condition. Mounted on steel wheels. Ideal for work on refuse tip. 30 days' warranty. Seen Hertford £490

BACKHOE AND SWING SHOVELS:
1958 CHASESIDE Hopton with Self-contained Power Pack incorporating Ford 4-cyl. Diesel Engine, All-weather Cab, Lighting, 24in. Backhoe Bucket, mounted on ex W.D. 4-ton chassis. Completely reconditioned £1,550

Send for full particulars to:
CHASESIDE ENGINEERING CO., LTD.,
Used Equipment Division,
Station Works, Hertford, Herts.
Tel.: Hertford 3113-8.

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

CONTRACTORS' PLANT FOR HIRE.

New Motorised PAYSCHAPERS for immediate hire (22 cu. yd.).
BD6, TD14 and TD18 TRACTORS, fitted with Drott Skid Shovels.
BD6, TD20, TD9, TD14, TD18 and TD24 TRACTORS, with Bulldozers and/or Scrapers.
TD18 TRACTORS with Pipe-laying Equipment.
10RB, 19RB and 22RB EXCAVATORS, with all equipments.
 First-class machines and operators, backed by finest field service in Great Britain.
 Generous transport terms to all parts of England.
LUMLEY (PLANT), LTD.
 Stratford-on-Avon 4242, Ashford (Middx.) 4191, Cardiff 33372.

EASTON BROS., LTD., OFFER FOR SALE:
 Smith 5-ton Steam Rail Travelling CRANE, 33ft. jib.
 Choice of two.
 Neals 1-ton Rail Travelling CRANE. Choice of three.
 BRIDGING SECTIONS—four Sections will bridge average streams. Originally used as bridge to take Valentine Tanks.
AIR RECEIVERS, COMPRESSORS and PUMPS.
 TANKS, all sizes, shapes. Capacity from 100 gallons upwards.

SLEEPERS, thousands available. All grades.
 Apply: Head Office, Strand, Swansea. 'Phones 52242.

FOR HIRE or SALE: 5,000yd. Jubilee TRACK, 25lb. Rails; 20 TURNOUTS; 200 FLAT BOGIES; 40 SIDE-TIP WAGONS; 54 cu. ft.; Five VAN TRAMS, all 24in. gauge; 50 Pairs WHEELS/AXLES, 36in. gauge; 1,500 STEEL CROWBARS, 36/42in., 1 1/4/1 1/4in.; 400 Octagonal STEEL JUMPER DRILLS, 4ft. 6in. x 1 1/2in. across flats.—JAMES H. WILLIAMS, 4 Dock Chambers, Cardiff. Tel. 31752.

FOR SALE, 19RB EXCAVATOR, 21000 Series, fitted with Skimmer and Trenching Equipment, very little used. D4 Caterpillar TRACTOR and Dozer; D4 Onions WINCH; Onions 4yd. SCRAPER; also SKIMMER EQUIPMENT, complete, for 19RB.—For price and particulars: 'Phone: Felling 592748.

ONE HD7 Hydraulic BULLDOZER, with Gar Wood Winch. This machine is in good condition except track chains which need renewing.—CAUDLE, LTD., Coventry Road, Birmingham. Tel.: Sheldon 2421.

FOR HIRE, 19RBs and 33RBs, TD and HD14s, and Merton OVERLOADERS.—SAND AND SHINGLE, LTD., Fosse Road, Feltham, Middx. Feltham 3045.

PLANT FOR SALE.

Thornycroft 5-ton M.V.I. Long wheel-base Coles CRANE, new NR6 Diesel fitted, reconditioned UDE International Diesel on generator, electric start, Rope Derricking, Insurance certificates, in very good order, £2,650.
 Ingersoll-Rand 6-tool COMPRESSOR, Waukesha Diesel Engine, 315 cu. ft. per min., electric start, mobile, on iron wheels, very good working order, £325.
 8/10-ton Diesel ROAD ROLLER, by Barford-Perkins (Pioneer), Type THD. In very good working order, £565.
 Two Stoithert and Pitt 10/7 MIXERS, one with Lister Diesel, £115, one with Electric 3-phase Motors, £125.
 Rex 10/7, Ruston 10/7H Engine, £125.
 C.P.T. MOBILE COMPRESSOR, on pneumatics, 105 cu. ft., Ruston 3VSH Engine, needs attention, £145.
 Aveling-Barford CALDOZER, Single-cyl. Petrol Engine, in good working order, £85.
 Two 2yd. GF 4-wheel DUMPERS, Petter Diesel Engine, new tyres, £165 the pair.
 International TD6, bare machine, also reconditioned spare engine, £225.
 Two 5/3 1/2 Millar Petter MIXERS. Very clean, £42 10s.
 G. H. DUNNING.
 Ballards Yard, High St., Edgware. Tel.: Edgware 2572.
 Open week-ends.

SALE.
 Caterpillar No. 6 TRAXCAVATOR, 2 1/2yd. Shovel, new bottom rollers, almost new tracks and links, late 1956. Absolutely first-class, £3,650.
 Thwaites 25cwt. DUMP TRUCK, late 1958, 2-cyl. Petter Diesel, good tyres. A bargain, £175.
 10RB EXCAVATOR, 9000 Series, Skimmer/Backer. A fine machine, ready for work, £750.
 Dinkum DIGGERS, 1954/5, several, from £450.
 FIELDS, Forest Edge, Ringwood Road, Ferndown, Dorset. Telephone: Ferndown 837.

LORRY-MOUNTED COLES CRANE HIRE in the North-West. Jib lengths to 80ft. First-class operators, good service, keen rates.—WM. OLDHAM AND SONS, LTD., 44 Parliament Street, Dukinfield, near Manchester. 'Phone: Ashton 1087/1342.

SLOGGETTS PLANT HIRE—For DINKUM DIGGERS, modern machines.—2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

GAZEWAY

CONTRACTORS' PLANT and
 MACHINERY of every description
 for SALE.

Send for our current list.
GAZEWAY PLANT HIRE LTD.
 Portsmouth Road, Thames Ditton, Surrey.
 Tel: EMBerbrook 5511 and 6147
 (night 6147).

PUMPING MUD?
 you need a
MUD MARVEL

BUY
 or
 HIRE
 from the
 sole makers
W. G. SEARCH
 LTD. WHITEHALL RD. LEEDS. 12.

FOR SALE.

1940, 2yd, Dragline and Skimmer Equip., £900.
 1950 Wolf, Dragline and F/S Backer, £850.
 Priestman Cub, Dragline, Diesel, £275.
 International TD18, c/w Bull/Angle Dozer, Hydraulic, £250.
 International BD6, and Anthony Overloader, £850.
 International BD6, c/w Angledozer, £800.
 International BD6, c/w Angledozer, overhauled, £1,100.
 Caterpillar D7s, fully equipped, from £1,500.
 Caterpillar 2T D4, L.P.C. Angledozer; good value, £800.
 Caterpillar DW10 SCRAPER (new Leyland Diesel), £2,250.
 Aveling-Barford Diesel ROLLER, 2 1/2-ton, £275.
 Allis-Chalmers HD14, Bull/Angle and P.C.U., £450.
 Carlisle GRADER, excellent order, £1,250.
 SCRAPERS, WINCHES, EQUIPMENTS, etc., etc.
 Write: INGHAM ENGINEERING SERVICES, LTD., 80 Guildhall Street, Bury St. Edmunds, Suffolk. Telephone: Chelmsford (Essex) 3727.

WANTED, FORK LIFT TRUCKS, 1-ton to 6-ton capacity. Petrol or Diesel, any condition. Cash on inspection. We offer reconditioned machines in PART EXCHANGE and HIRE FORK LIFTS for all purposes.—FRED WATKINS (ENGINEERING), LTD., Coleford, Glos. Telephone: Coleford 2271/5.

AVELING-BARFORD 10 1/2 yd. Diesel DUMPER, hydraulically operated, 6 x 4, new in 1952 at cost of £8,000, complete with set of spares, £1,250. SOUTHERN COUNTIES TRADING CO., Portsdown Hill, Bournemouth, Havant 1438.

BULLDOZERS, MECHANICAL LOADING SHOVELS and TRAXCAVATORS, etc. TIPPING LORRIES, 3/7-ton, for HIRE.—HENRY FROUD, LTD., Primrose Wharf, Tunnel Avenue, Greenwich, S.E.10. Telephone: GREENWICH 0072-3.

WANTED, PILING HAMMER ATTACHMENTS and HELMETS for Broomwade RB55 Road Breaker. NORMAN WALKER (MACHINERY), LTD., Anlaby, Hull.

FOR SALE, One Caterpillar 933 TRAXCAVATOR. Full details upon application to EARTHSTRIP, Walsley Road, Hampole, near Doncaster. 'Phone: Adwick-le-Street 3166.

FOR HIRE, Barber-Greene Junior, new 1957, and Barber-Greene Major, new 1959.—FRED. WATKINS (ENGINEERING), LTD., Coleford, Glos.

FOR SALE OR HIRE

Coles CRANE, 3-ton, Diesel/Electric. Long or short hire. Terms quoted.
 Also various other plant and machinery: COMPRESSORS, ROLLERS, MIXERS, etc., for SALE.
 Please inquire.
 Open weekends.

G. H. DUNNING.
 Ballards Yard, High Street, Edgware.
 Telephone: Edgware 2572.

DUMPERS

Two late 1958 THWAITES TUSKER 1 1/2 yd. 4-wheeled Diesel DUMPERS, capacities 22 cu. ft. wet concrete. Completely reconditioned and guaranteed for three months, resprayed, £325 ex works.

Selection of THWAITES 3-wheeled Hydraulic TIPPING DUMPERS, capacities 12 cu. ft., in working condition, overhauled but not reconditioned, from £75.

One B.H.C. ANT QUEEN MOBILE HOIST. Latest safety gear, completely reconditioned, £290 delivered.

One WINGET 14/10 MIXER, 10THH, late 1957, all Hydraulic, with Weighbatcher, new control box. Completely reconditioned and resprayed, £750 ex works.

NEALE-WRIGHT & COMPANY LTD.
 150 PARADE, LEAMINGTON SPA.
 Telephones: Leamington Spa 924 and 220.
 London Gladstone 8574.

IT'S TERRIFIC!!!

The
Massey-Ferguson 702
 Tractor-Digger-Shovel

For Demonstration and Details contact:
Brown's Industrial Equipment Ltd.
 LEIGHTON BUZZARD. 'Phone 2062 (4 lines)
 Distributors in Beds., Bucks & Herts.

PHONE CENTRAL 5364

GRIFFITHS
 FOR
CRANE HIRE

Our Fleet is
 entirely Lorry Mounted
 we offer a country-wide service.
 Jib lengths to 120 ft. all capacities up to 25 tons.

JOHN GRIFFITHS & SON LIMITED
 ★ CRANE HIRE & TRANSPORT DIVISION. 1 · MARYBONE · LIVERPOOL · 3

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

WILSON PLANT HIRE offer the following:
 Priestman Tiger Mk.V EXCAVATOR, No. A7650, purchased new in August, 1955, fitted with Dorman 4LA Diesel engine, with 24in. tracks, any equipment. First-class condition throughout.
 Murex WELDING SET, Type G8002, Serial No. 22675, 9-kW 30-V 300-Amp., with Perkins P4 engine, mounted two pneumatics, with towbar.
 Murex WELDING SET, Type G8002, Serial No. 34112, 9-kW 30-V 300/400-Amp., with Perkins P4 engine, mounted two pneumatics, with towbar.
 Broadbent 14in. x 54in. S.S. Centre LATHE, motorised, 3' in. hollow mandril, 12 spindle speeds, 5.7-230, c/w 24in. face plate and 12in. 4-jaw chuck.
 SKIMMER BUCKETS for Priestman Wolf Mk.IIIB and Mk.IV Excavators.
 Dorman 4BKII DIESEL ENGINE, fully reconditioned, complete with fuel pumps, injectors, water pump, fan, flywheel and housing, but less starter and dynamo, suitable Priestman Wolf Excavator.
 One 3in. Auto Diesel CENTRIFUGAL PUMP.
 One 4in. Auto Diesel CENTRIFUGAL PUMP.
 Several Parker 5/31's CONCRETE MIXERS.
 SKIMMER BUCKET for Tiger Mk.V Excavator.
WILSON PLANT HIRE, LTD.,
 Weedon Road, Northampton. Telephone 4653/4.

AVAILABLE for immediate DISPOSAL: Quantity of Frodingham No. 2 STEEL SHEET PILING, in 14' 20ft. lengths at £34 per ton, and 49 x 23ft. lengths of Larssen No. 3 at £38 per ton.—Full details: **VALES PLANT REGISTER, LTD.,** 14 Lower Grosvenor Place, London, S.W.1. Tel.: VICTORIA 7531/3501, 8080/9886 (15 lines).

LIMA 1201 Heavy-duty CRANE, fully rigged with genuine American 100Ht. Boom and july to British maximum rated capacity, fully insured. Available for HIRE with skilled operator.

VALES, LTD.,
 25 Castlereagh St., London, W.1. PADDINGTON 2663/5.

BUCKET SPECIALISTS—Special or Standard SHOVEL, TRENCHER, GRAB and DRAGLINE BUCKETS to suit all machines. Quick delivery.—Write for "phone the makers." **NORTONS PLANT HIRE, LTD.,** Billericay, Essex. Tel.: Ramsden Heath 365.

PLANT HIRE: Earthmoving, Site Clearance, Excavations for Roads, etc.
DOUGLAS HAMILTON, LTD.,
 Tunbridge Wells, Telephone: Southborough 1538.

AVAILABLE for HIRE: Fully Reconditioned 33RB and two 37RB EXCAVATORS.—**PIPEWELL PLOUGHING CO.,** Sleetmoor Lane, Somercotes, Derbyshire. Tel.: Leabrooks 432.

FOR SALE, 22RB, No. 20371, with 40ft. Dragline Equipment. In good order.—**SHANKS AND McEWAN, LTD.,** Corby, Northants.

FOR SALE.
 Avery nearly new ROAD WEIGHBRIDGE, 25ft. x 8ft. platform, with dial and electric-automatic ticket printing and recording headwork.
 Pignon P20 TOWER CRANE, with 100ft. Mast, 82ft. Jib, capacity 3 tons at mast, 16cwt. at end of jib, remote control.
 Butters 3-ton Electric DERRICK CRANE, 80ft. Jib. Smith All-steel 3-ton Hand DERRICK CRANE.
 Morris 5-ton Petrol/Electric MOBILE CRANE, solid rubbers.
 Avery 20-ton ROAD WEIGHBRIDGE, 18ft. x 8ft. platform.
 Broadbent 16in. x 10in. PORTABLE STONE CRUSHER. LOCOS., two 4-wheel coupled, saddle tank, 14in. cylinders.
 Ruston Thermax No. 25 Vertical MULTITUBULAR BOILER, 13ft. high x 5ft. dia.
 Spencer-Hopwood No. 8 Vertical MULTITUBULAR BOILER, 120lb. working pressure.
STORAGE TANKS. Large stock of cylindrical and rectangular.
 Keith Blackman 4ft. 6in. square PORTABLE SMITH'S HEARTH, with hood, electric blower, tuyere, etc.
 TRAM RAILS, 60 tons in 30ft. lengths.
 R.S.J., 50 tons, various sections.
 PIPING, 5 tons 2in., screwed and socketed.
 Butters 30-h.p. D.C. CRANE MOTOR and Controller.
 ELECTRIC MOTORS. Large stock of S.C. and S.R. to 30-h.p.
 CENTRIFUGAL PUMPS, motor and belt driven.
 BOILERS, Lancashire, Cornish, Economic, Marine and Vertical. Up to 200b. pressure.
JAMES DIXON, Central Works, Burnley. Tel. 2142/3.

WANTED.
 CRAWLER TRACTORS and Bulldozers, any condition; also Parcels of Spares for same. Prompt cash and collect.

SPARE PARTS available for TD6, 9, 14, 18, Caterpillar D2, D4, Fowler VF, FD3, Allis M and County.
ROBIN BOSWORTH,
 Tel.: Stoke Saint Milbore 237. Nr. Ludlow, Shropshire.

AVAILABLE for DISPOSAL: NCK304 CROWD SHOVEL EQUIPMENT, comprising two Jibs with rack arms plus three buckets and two sets of trip gear—**GEORGE WIMPEY AND CO., LTD.** (E. H. Roberts), 27 Hammersmith Grove, London, W.6.

INTERNATIONAL B250, complete with Shawnee Front-end Loader with 42in. Bucket, used for demonstration only, £725.—Apply **P. PLATTIS AND SONS, LTD.,** Bigby Road, Brigg, Lincs. Tel.: Brigg 2375.

FOR SALE: 10 Stothert and Pitt 10/7 Petrol-engined CONCRETE MIXERS, in excellent condition, ex Admiralty, £75 each.—**L. W. VASS, LTD.,** Amptihill, Bedford. Telephone: Amptihill 3255.

FOR SALE.
 D4 TRACTOR, Model 2T, with L.P.C. Dozer, £850.
 HT4 TRAXCAVATOR, with 1 1/4 cu. yd. Bucket, £1,975.
 D7 TRACTOR, Model 3T, with L.P.C. Dozer, £3,250.
 D7 TRACTOR, Model 7M, with L.P.C. Dozer, £1,750.
 D8 TRACTOR, Model 2U, with Caterpillar 25 Winch, £2,350.
 Six Onion WINCHES for Sherman Tanks, £225.
 19RB EXCAVATOR, 400 Series, Dragline or Back-acter Equipment. Working order, £950.
 20-ton PORTASLO, complete, June, 1957, £475.
 30-ton PORTASLO, complete, June, 1957, £575.
 21/14 Rapier CONCRETE MIXER, Model 14T, Turner Diesel Engine, £250.
 10/7 Rapier CONCRETE MIXER, Model 7T, £75.
 10/7 Winget CONCRETE MIXER, with Lister Diesel, £75.
 Le Tourneau 4 cu. yd. SCRAPER, Model X, £150.
 Le Tourneau 14 1/2 cu. yd. SCRAPER, Model F, £890.
 D7 TRACTOR, Model 9G, being dismantled: Rollers, Sprockets, Idlers.
 SPARES—Ransomes and Rapier, Ruston, Caterpillar. 50% of list.

A. J. PHILLIPS, LTD.,
 Metropolitan Works, West End Lane, London, N.W.6.
 Telephone: MALDA Vale 3046/2053/4807.

WANTED, WANTED, WANTED.
 Heavy EARTHMOVING MACHINES and EQUIPMENT of all types. Modern machines preferred, others considered. Immediate inspection: spot cash settlement. Write, giving full details and location, to **A.R.C. MOTOR CO., LTD.,** Redhill Works, Arnold, Nottingham. Telephone: Nottingham 263331/5.

FOR SALE, 1957 4HTW Weatherill Hydraulic Two-way OVERLOADER, fitted with heavy-duty water ballast 1400 x 24 rear wheel and tyre equipment. First-class order. £1,350.

GENERAL ROADWORK LTD.,
 Mitcham Road, Croydon. Tel.: Thornton Heath 8252.

FOR HIRE.—Available immediately 1201 LIMA, fitted with genuine American 100ft. Crane Boom, Back Haul Gear, Bridle, etc., and in first-class condition.—**PLANT SALES, LTD.,** 25 Castlereagh Street, London, W.1. Telephone: PADDINGTON 2663/5.

FOR SALE, Two Marshall 8/10-ton Diesel ROLLERS; one Diesel 6/8-ton Tandem ROLLER; one Allis HDS SHOVEL; one Drott SHOVEL; Two Diesel Fork Lift TRUCKS.—Write Box P.1520, "The Contract Journal."

TRAXCAVATORS for HIRE. Caterpillar 977, 955, HT4, International BTD6, 4-in-1. All in first-class condition, with experienced operators.—**MOBILE HAULAGE, LTD.,** 230 Tottenham Court Road, London, W.1. Tel.: Langham 7833/5.

CAN YOU SPOT THIS WEEK'S special bargain

Chasidese Cable-operated CRANE, powered by Fordson Engine, on good 12.00 x 24 and 750 x 20 pneumatic Overhauled, ready for immediate work. £265
 Late 1956 Weatherill 2H CRA Hydraulic LOADING SHOVEL, in very good order, seen working on site. £1,198
 County BULLDOZER, Mk. III, powered by Ford 4D Diesel Engine, on 14in. tracks, with Bray Hydraulic Angledozer. Recently overhauled, tracks, rollers, sprockets, etc. in first-class condition, tested and resprayed. £950
 Caterpillar D4 BULLDOZER, powered by Caterpillar Diesel Engine, 13in. tracks, fitted with La Plant Choate Hydraulic Angledozer. Good sound machine, well maintained, immediate delivery. £650
 Oliver LOGGING ARCH, with 4-ton lift, as new. £395
 Flat 55L Hydraulic ANGLEDOZER EQUIPMENT, complete. £275
 Fowler VF ANGLEDOZER EQUIPMENT, complete. £230
 Onions Empire 6yd. Cable-operated SCRAPER, good order. £675
 1955 Thwaites Tusker 1 1/2-ton DUMPER, powered by Petter 12-h.p. air-cooled Diesel Engine. Overhauled and fitted new remould tyres. One only. £265
 Caterpillar D2 Hydraulic ANGLEDOZER EQUIPMENT. £175
 Drayton 1-ton Diesel DUMPER. £195
 We are breaking-up a 1955 FIAT 55L and are offering the main engine, in running order, at £225; donkey engine at £75. Dozer Equipment at £200. Also gears, complete castings, etc., at cheap prices.
 Clearance stock of TD9 Spare Parts, Dynamos, Pumps, etc. Prices on application.
 We are breaking-up a "Motor Rail" DUMPER with Dorman Diesel Engine. All Spares offered at cheap prices.
 New type Fordson Major Diesel TRACTOR, on good pneumatics, fitted with Front-mounted Sky-hi Hydraulic Loading Shovel with 1/2 cu. yd. Shovel. Overhauled and guaranteed. £450
 1957 County 4-wheel-drive pneumatic-tyred TRACTOR, with Bray Hydraulic Angledozer. Completely overhauled, new remould tyres all round.
 Liner Nip Skip DUMPER. £85
 Shawnee-Poole Model 7 Rear Dump, 7 cu. yd. capacity, used for demonstration purposes only. Excellent condition. £1,650
 Climax 2-tool COMPRESSOR, overhauled, good order. £185
 Le Tourneau Double Drum WINCH for Caterpillar D4. £125

ERNEST DOE & SONS LTD.

Uiting, Maldon, Essex

Telephone: Hatfield Peverel 311 (Night 319).

CONTRACTING EQUIPMENT

Two Wild Fawcett Rail-mounted TOWER SLEWING CRANES, manufactured in 1951, with 42ft. 6in. Jib.

One Hilgers Volger Rail-mounted TRAVELLING TOWER CRANE, Model BDK75, Jib 45ft. 6in. Supplied by Messrs. Abelson and Co.

Two A.C.E. HOISTS, 30cwt. capacity, able to lift to height of 100ft.

One additional spare WINCH as incorporated with the A.C.E. Hoists.

Two HOPPERS for use with A.C.E. Hoists. Two BATCH WEIGHING MACHINES, manufactured by Messrs. Avery, Birmingham.

Three Electric CONCRETE MIXERS.

Two 167 c.f.m. Broomwade COMPRESSORS.

One Diesel driven PORTABLE CONCRETE MIXER.

50 Tracked TOWING AMBULANCES.

J. T. LEAVESLEY, LTD.,

Akrewas, Staffordshire.

Phone: Akrewas 354/5/6.

PUMPING SLUDGE?

you need a

MUD MARVEL

BUY or HIRE from the sole makers

W.G. SEARCH

WHITEHALL RD. LEEDS, 12.

LTD.

LEEDS, 12.

LEEDS, 12.



Less labour, low costs,

with the 'DUMBO'—the most economical hopper for the small builder. All-steel silo that one man can off-load and erect in a matter of minutes. 10-20-30 tons (cement) capacities.

DUMBO
 SELF-ERECTING HOPPER



Photograph by permission Messrs. Wates Ltd.

A.L.C.

BEST FOR BULK

For detailed information contact:
Amalgamated Limestone Corporation Ltd.,
 Bulk Handling, 15 Stanhope Gate, London, W.1.
 Tel: Grosvenor 3611 (10 lines)

Abelson & Co. (Engineers) Ltd.,
 Sheldon, Birmingham, 26. Tel: Sheldon 2424 (10 lines)

MOORE'S PUMP HIRE

Warsop Centrifugal and Wickham Diaphragm.

Tel:
 TOTtenham
 0401
 (10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

CRAWLER TRACTORS FOR SALE.

Challenger 3, complete with P.C.U.
Challenger 1, complete with Angledozer.
Flat 95L, complete with Angledozer.
HD7, with Angledozer.
Caterpillar D4, wide gauge.
Fordson County PLOUGHMAN, 1958.
1957 Track Marshall; choice of two.
BTD6, with Hydraulic Dozer.
Marshall VF, with Hydraulic Dozer.
TD9, with RB Loading Shovel.
Fordson E27N, with heavy duty Hydraulic Loading Shovel.
TD14, with Angledozer.
D7 9G: bare machine.
Hydraulic Dozer Equipments and Winches for all the above machines.

N. M. GREEN.

Kirkby Underwood, near Bourne, Lincs.
Tel.: Dowsby 285; (nights) Gossberton 305.**FOR SALE.**

Liebherr 14A Tower CRANE, Serial No. 5358, new late 1955, in excellent condition, repainted and offered with every confidence, little used since new. Offers.
Consolidated Pneumatic COMPRESSOR, 2-tool, portable, Serial No. C2233965, powered by Ruston 3VSH No. 263731, good working condition, £115.
Two Stothert and Pitt Trailer CONCRETE MIXERS, 10/7 Closed Drum with overrun brakes, powered by Lister C.D. and Pette AV2 Diesel Engines, good condition, £110 each, or £190 the pair.
FOR HIRE:
12½-ton Fast Travel Lorry-mounted CRANE, 30-90ft. jibs.

HAWLEY PLANT, LTD.

Wilmington, Dartford, Kent. Dartford 5897/5539.

FOR SALE. Allam Vibrating SCREEN, 6ft. x 3ft., two decks ½ in. and 3 in. mesh, including 5-h.p. 3-phase motor, with channel iron stand and chutes. Also 1½ cu. yd. HOPPER and Sin. PRIMARY GRID, with Allam Electric Vibrator mounted on stand. Can be viewed at Leatherhead, Surrey. — BRIDGWATER BROS., Epsom (4404), Surrey.

FOR SALE OR HIRE: 14/10 Blaw Knox Rex Cleanline MIXER, complete with Weigher and Dragline Scraper, Diesel or Electric drive, in first-class condition. — W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. Phone 125.

FOR SALE. BTD6 Drott SHOVEL, fitted with standard Bucket, in first-class order. — Apply FRANK HAYES (ILKESTON), LTD., Belfield Street, Ilkeston, Derbyshire.

AVAILABLE FOR HIRE AND CONTRACT: D9 and D8 TRACTORS, with Blade or Scraper. — ELLIOTT, Wetherby Road, York. Telephone: 78220 and 78501.

SLOGGETTS PLANT HIRE. — Fleet of DIGGER-LOADERS for immediate HIRE. — 2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

FOR SALE.

10RB DRAGLINE EQUIPMENT, complete with counterweight, in 1 condition, £265.
15in. Norton TRENCHING BUCKET for 10RB, fully dressed, A1 new, £65.
Road Machines Double Swing WEIGHBATCHER, A.1 condition, £165.
Winget 14/10 Diesel MIXER. Good condition, £250.
Winget POWER BARROW. Poor condition but repairable, £15.
LAND-ROVER, Petrol. Fair condition, £215.
A.C.E. 15cwt. WINCH only. Good runner, £25.
Plant offered is in stock at our yard, and can be inspected at any time.
D. A. MOODY (PLANT HIRE), LTD.,
9 Moss Lane, Romford (S4501), Essex.

PLANT FOR SALE.

Caterpillar D9, with Blade, Pusher and P.C.U.
Six Allis-Chalmers MOTOR SCRAPERS.
Winget-Parsons 221 Continuous Bucket TRENCHER. Excellent order.
10RB EXCAVATORS, 15500 and 5000 Series, Back-acter Equipment.
Caterpillar D7, Model 4T, L.P.C. Hydraulic Angledozer.
Vickers Model VR80 Type C, with Double Drum Winch.
Caterpillar D4, Model 6U, with L.P.C. Angledozer and Le Tourneau P.C.U.
Allis-Chalmers HD5G TRAXCAVATOR.

For further details, apply:

ROBERTSON, Barkway (Tel. 277), Herts.

FOR SALE OR HIRE: Six 14B Muir-Hill 4½yd. DUMPERS, rock bodies with Perkins P6 Engines. Well tyred, modern and good. — PLANT SALES, LTD., 25 Castlereagh Street, London, W.1. Phone: PADdington 2663/5.

MITCHELL'S PLANT SERVICES, LTD.,
can always offer an excellent range of used Weatherill Hydraulic or Chaselside MECHANICAL SHOVELS. Price to suit all users. — Write or phone: Palmers Lane, Enfield, Middlesex. HOWARD 3493.

STEEL SHEET PILES AND TRENCH SHEETS urgently WANTED. All sections bought: large and small quantities. Immediate payment.

DUDLEY VALE, LTD.

3 Buckingham Place, London, S.W.1. VICTORIA 0252.

FOR SALE. New 8cwt. Greens Vibratory ROLLERS. Immediate delivery.

DIAL-MEC, LTD.

47 Castle Street, Hertford. Tel.: Hertford 2456.

FOR SALE. New Single and Twin Diaphragm Lift and Force PUMPS, with Diesel drive.
WILLIAM G. SEARCH, LTD., Whitehall Road, Leeds, 2. Tel. 639081 (10 lines).

ONIONS P.C.U. for SALE, suitable for D7 Tractor. Little used. — Write Box P.1806. "The Contract Journal."

FOR SALE. 5-ton capacity Smith Diesel RAIL CRANE, 45ft. centres jib. — THOS. W. WARD, LTD., Sheffield. Telephone 26311—Ext. 305.

FOR IMMEDIATE HIRE.

Caterpillar D4, D6, D7 and D8 TRACTORS, with Dozers and Scrapers.
10RB, 19RB and 22RB EXCAVATORS, with usual equipments.
5-ton, 10-ton, 15-ton and 20-ton CRANES.
¾ cu. yd. EXCAVATORS, rigged as Cranes, jibs 35ft./70ft., power boom lowering.
Caterpillar TRAXCAVATORS, with 1½ cu. yd. Shovels, Rippers and Dozer Blade.
Allis-Chalmers HD5G TRACTO-SHOVELS, 1 cu. yd. capacity.
International Drott TRACTO-SHOVELS, with 4-1½-1 equipments.
J.C.B. HYDRA-DIGGAS, with 18in.-24in. Buckets, Loading Shovels and Square Hole Attachment.
5/3½, 7/5, 10/7 and 14/10 CONCRETE MIXERS, Petrol or Diesel.
10-ton, 15-ton and 20-ton PORTALOS.
1½, 2½ and 1½ cu. yd. Benford DUMPERS.
50cwt.—8/10-ton Diesel ROAD ROLLERS.
4½/6cwt. VIBRATORY ROLLERS.
20/30cwt. FOOTPATH ROLLERS.
5/10cwt. Ace HOISTS, 60ft. Masts.
Chinook HEATERS, Petrol and Electric.
2-Tool PORTABLE COMPRESSORS.

Please write or telephone:

A. J. PHILLIPS, LTD.

Metropolitan Works, West End Lane, London, N.W.6.

Telephone: MALda Vale 3405/2053/4807.

WANTED BY CONTRACTOR.

Two 19RB EXCAVATORS, with Shovel or Dragline Equipment.

One 22RB EXCAVATOR, with Dragline Equipment.

One Caterpillar D9.

Three DW21s.

One 463 SCRAPER.

Three Caterpillar D7 Hydraulic ANGLEDZERS, Model 3T.

One Caterpillar D6 Hydraulic ANGLEDZER.

One Model 95S TRACTOR SHOVEL.

Two Caterpillar D4 Hydraulic ANGLEDZERS.

Send fullest details and price to:

Box K.K.387, "The Contract Journal."

ONE LIMA 1201 FORWARD SHOVEL

EQUIPMENT, the bucket of which has never been used, is available for SALE.

PLANT SALES LTD.,

25 Castlereagh Street, London, W.1. PAD. 2663/5.

SALE OR HIRE. 85-h.p. standard gauge Diesel

LOCOMOTIVE, weight 18 tons, by Motor Rail.

JOSEPH PUGSLEY AND SONS, LTD.

Bristol, 5. Telephone: Bristol 56037.

FLEET CARS (SALES), LTD.—BUSES AND COACHES

for the conveyance of workmen, personnel, etc.

Free hire, repurchase scheme. — See main advertisement under "Electrical Equipment."

WANTED. Aveling-Barford 2½-ton to 8-ton Diesel

ROLLERS; also Wallis and Stevens 6/8ton; not more than eight years old. — Please send full particulars and price to Box P.1615, "The Contract Journal."

**EQUIPMENT
SALES & HIRE CO. LTD.****FOR HIRE**

TRAXCAVATORS 955

CAT. D.7's Dozer or Scraper

19 R.B.'s—Any Equipment

HOUNSLOW 8831

FOR HIRE**SIDINGOOM TRACTORS****TRACTORS**

HD7, HD10, HD14, Dozer or Scrapers.

D4, D6, D8, Dozer or Scrapers.

TRATIO SHOVELS.

HD5G, with 1½ cu. yd. Bucket.

HD5G, with 2½ cu. yd. Bucket.

EXCAVATORS.

10RB, 19RB, all equipments.

J.C.B. Hydra-Diggs, all equipments.

DUMPERS:

Aveling, 4½ cu. yd.

Rob Roy, 15cwt.

ROLLERS:

5-ton and 8-ton, Diesel.

CRANES: 5-ton and 10-ton, lorry-mounted, 30-60ft. jibs.

PUMPS:

3in. L. and P. Diaphragm.

3in. Centrifugal.

MIXERS:

5/3½, 7/5, 10/7, 14/10.

TIPPING LORRIES:

Austin 6 x 4.

All inquiries to:

G. CARTER & SONS, LTD.

YOKESFORD HILL, ROMSEY, HANTS.

Telephone: Braishfield 393/6/7.

BIG CRANE EXCAVATORS

Several for Sale

A.R.C. MOTOR Co. Ltd.

REDHILL WORKS, ARNOLD, NOTTINGHAM

Telephone: 26-3331/5

MECHANICAL ROAD SWEEPERS

available

FOR HIRE

on weekly or monthly terms

or

FOR SALE**WALKERS MECHANICAL CLEANSING LIMITED**

ROCKINGHAM ROAD, MARKET HARBOROUGH

TEL: 3148

FLYGT**PUMPS FOR HIRE**

All sizes of Flygt Electric Pumps available for hire (ex-stock)

Range includes 1½in., 3in., 6in., and 8in. deliveries

INDUSTRIAL PUMPS LTD.

20 BENTINCK ROAD, HYSOON GREEN, NOTTINGHAM

Telephone 75182-3

Buildmaster
CRANES

FOR SALE OR HIRE



MODEL SK25N
CLIMBING CRANE
JIB LENGTH 92 ft.
MAX LOAD 2½ tons
Covers area of 26,500 sq. ft.

Self-erecting Buildmaster Climbing Cranes are ideally suited to Contracts where site restrictions or the height of the building preclude the use of Buildmaster Tower Cranes.

BACKED BY REAL SERVICE
BY

ABELSON

& CO. (ENGINEERS) LTD.

SHELDON · BIRMINGHAM 26

Phone: SHEldon 2424 (10 lines)

Grams: ABELSON, BIRMINGHAM

MOORE'S ROLLER HIRE

Wallis & Stevens 2½ to 10 ton.

Tel:
TOTtenham
0401
(10 lines)

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

ELLIOTT BROS. (WORTLEY), LTD.

EXCAVATORS:
Smith 4/14, Crane rigged, £390.
Smith 3/12, Crane rigged, £450.
Smith 2/10, any equipment, £570.
Smith 2/10, any equipment, £590.
Ruston 16RB Face Shovel, Gardner Engine, electric start, £700.
Ruston 10RB Crowd Shovel, Skimmer and Backacter, £1,000.
Ransomes and Rapier 423, 3/4yd. Dragline, electric start, £800.
Ransomes and Rapier 410, 3/4yd. Crowd Shovel and Skimmer/Backacter, £700.
Priestman Wolf, Skimmer or Dragline, Dorman Engine, electric start, £690.
All above in full working order and subject to any test at these works.

EQUIPMENTS AND SPARES:
3/4yd. General CROWD SHovel, with jib, adaptable to many machines, £150.
1/2yd. N.C.H. DRAGLINE EQUIPMENT, complete adaptable, £150.

1/2yd. N.C.H. CROWD EQUIPMENT, with jib, £130.
1/2yd. N.C.H. BACKACTER EQUIPMENT, £130.
Smith 2/10 BACKACTER BUCKET and arm, £75.
Smith 2/10 BACKACTER BUCKET only, £50.
Smith 2/10 DERRICKING GEAR, £30.
Vickers-Vigor TRACKS, two sets, £125 each.
Smith 2/10 (Fowler) and D4 RADIATORS, one off each, new with cowls, £50 each.

PUMPS:
Sulzer Bros., 6,000 g.p.h. at 500ft. head, 52-h.p. Diesel on Bedplate, with Radiator, new ex Army, £200.
Ransomes and Rapier 3in. Centrifugal, suction hose and strainer, air-cooled Petter Diesel, £85.
Tangye 3-throw 1,200 g.p.h. at 500ft. head, £50.
Sykes 3in. diaphragm, £40.
3in. Fire Hose, excellent condition, 1s. per foot.

TRAILERS:
45-ton Tank Carrier, articulated to Albion 6 x 4 Tractor, 25,000 miles. Multifuel Engine at present Petrol, but Diesel heads included, no pump. Ten excellent 40 x 8 tyres on tractor drive away, £320.
20-ton articulated Low Loader, new air brakes, 1400 x 20 remould tyres, 20ft. well, detachable axle £900.

N.C.H. Trailer, 14 tons, £190.
Dyson 10-ton Low-load, £130.
Tasker 2-wheel 5-ton 2ft. loading height, over-ride brakes, £50.
Foden Coach, Gardner 5LW, low chassis, single cab useful for crane or machinery carrier. Drive away, £150.

ROLLERS:
8/10-ton Marshall T.S.F. Perkins Diesel, £1,100.
30cwt. Greens Sportsfield Roller, new ex Army, £285.

QUARRY PLANT:
Package deal—Do-it-yourself Quarry Plant, comprising 25in. x 16in. Crusher, Lister Diesel Power Pack (new) and enough 6ft. x 3ft. steel section (new) to make 120 cu. yd., four-compartment storage bin, £650.

Portable Screens and Loading Belt, with side belt for rejects, £275.

ENGINES:
Chrysler Diesel Power Pack, 50-h.p., electric start, new, ex Army, £190.
Lister Diesel Power Pack, 40-h.p., new, ex Army £200.

Caterpillar D4 Donkey Engine, 3,000 hours, ex generator set, £175.
Fowler 8-h.p., 2-cylinder, petrol, power pack, new, £30.

Glen Works, Deepcar, near Sheffield.
(Telephone: Stockbridge 2276.)
Deepcar is six miles west of Sheffield, on A.616 (Woodhead Road).

BUNKER CLAMHELL GATES LEVER OR AIR OPERATED ALL STEEL CONSTRUCTION



**MAXIM CONVEYORS
(ENGLAND) LTD.
BELVEDERE KENT
Ring ERITH 4223**

CONTRACTORS' PLANT FOR HIRE.

HIRE PURCHASE OR SALE:
Selection from our comprehensive fleet of Modern Plant for immediate delivery:

CRANES (standard gauge):
18-ton Brownhoist, Shunter, 50ft. jib.
10-ton Coles, shunter, 40ft. jib.
10-ton Grafton, Diesel, 34ft. jib.
8-ton Wilson, Steam, 35ft. jib.
5-ton Grafton, new Diesel conversion, 35ft. jib.
5-ton Smith, 50ft. jib (two).

CRANES (MOBILE ROAD):
Lorain 10-ton, lorry-mounted, extendible jib, 30/70ft.
Ruston 10-ton, track-mounted, 40ft. jib.
Ransomes 8 1/2-ton, Diesel, 21ft. jib, 1942.
Coles 8-ton, Diesel/Electric, new 1948.
Coles 5-ton, Mark 7, on Thornycroft Diesel chassis.

Jones 4-ton, KL44, Diesel, 1948.
Coles 4-ton, Diesel/Electric, new engine.
Jones, 3-ton, Super 40. Three available.

DERRICKS:
7-ton Anderson-Grice, 100ft. jib, 400/3/50.
5-ton Wilson, 70ft. jib, 400/440/3/50.
7-ton Rushworth, Hand, 30ft. jib.
1 1/2-ton Smith, Hand, 55ft. jib, new 1952.

EXCAVATORS:
Three 10RBs, 1940-51, Shovels and Draglines.
22RB and 33R.B.s, Face Shovels.

LOCOS:
Stephenson Diesel Locos., 150-h.p. (two).
Barclay 80-h.p.; Ruston 88-h.p., Diesel.
Bagnall Steam 14in. x 22in., oil-fired.
Peckett Steam, 7in. x 12in.

BULLDOZERS:
D4 and TD18, fully reconditioned, with Angle-doers.

PORTABLE BOILERS:
Mobile Oil-fired Economic, on pneumatics (1,500lb. evaporation); also Static Coal-fired Cochran Cross Tube and Crane Boilers.

AIR COMPRESSORS (on pneumatics):
Two 210 c.f.m., 100 p.s.i., Diesel, 1953.
Two 160 c.f.m., 100 p.s.i., Diesel, Worthington.
Four 105 c.f.m., 100 p.s.i., Diesel, Broomwade.

ROLLERS:
12-ton Aveling, Diesel.
9 1/2-ton Marshall, Diesel.
6-ton Huber, Diesel (two).
5-ton Aveling-Barford, Diesel.
2 1/2-ton Aveling, Diesels (three).

DUMPERS:
Foden 8 and 12 cu. yd., nearly new.
Three Muir-Hill 14B, Diesel, 4 1/2yd.
Two Muir-Hill 10B, 2 1/2yd.

CONCRETE MIXERS:
Millars 14/10, Diesel-driven.
Winget Roller Pan Mixer, Diesel, 4ft. 6in. pan.

Contractors' Pumps, Roadforms, Flexible Hoses (4in. to 10in.), Steel and Cast-iron Pipes up to 20in., Electric Motor, Diesel Engines, Portable Crushing Plant, Light Railway Equipment and Locomotives, Scaffolding, Fittings, etc.

FRED WATKINS (ENGINEERING), LTD.,
Coleford, Glos. Telephone 2271/2.

D9, D8, TD18 and TD14 BULLDOZERS and Scrapers, Motor Graders, Excavators and new Tipplers for HIRE or SUB-CONTRACT WORK. Particular attention given to finish and compaction. New and modern machines in first-class condition. Good operators. Technical staff available to analyse, programme and price complex projects.

DICK HAMPTON,
Broadview Farm, Blackhorse, Alton, Hants.
Telephone: Bentley 2241.

SLOGGETTS PLANT HIRE.—For DUMPERS, all sizes.
2 Burtons Road, Hampton Hill, Middx. Tel.: Teddington Lock 1138/9.

ROAD ROLLERS

FOR HIRE OR SALE

10 CWTs. to 10 TONS

with or without drivers

HALTRAC LIMITED

Bourne Works, Weimar St., S.W.15.

PUTney 4185

FOR SALE.

240 cu. yd. BUNKER, erected three years, 35ft. x 15ft. x 14ft. deep, 12in. x 6in. R.S.J., 28ft. to bottom of timber bunker, 9in. x 3in. oak with 6in. x 5in. R.S.J. frame, cross and elevator conveyors. Drawing on request.
BULK CEMENT CARRIER, Fordson six-wheel, P6 engine, fitted air compressor, capacity 8 to 9 tons, or 200 cu. ft., new 1953, excellent condition. Various widths good CONVEYOR BELTING.

FOR HIRE:
ROTARY AIR COMPRESSORS, Broomwade, 630 cu. ft./min., 2 x 260 cu. ft./min.

WALKER AND PARTNERS, LTD.,
23 Claremont Crescent, Sheffield, 10.

FOR SALE.

24RB, with 1/2yd. Dragline, £1,350.
19RB 5000, Gardner Engine, Dragline, £1,150.
Weatherill Hydraulic SHOVEL, £500.
Broomwade 4-tool COMPRESSOR, Lister Diesel, £250.
Thwaites 15cwt. DUMPER, £90.

Benjo RAMMERS, from £30.
Smith Super 10 TRACKS, new, £160.

HOLLINGS AND ANDREWS, LTD.,
East Busk Lane, Otley (2940), Yorks.

AIR COMPRESSORS FOR SALE.

Two Bellis and Morcom 2,450 c.f.m., 100 p.s.i., 550-h.p. motor, Broomwade 500 c.f.m., EH251; 400 c.f.m., EH245; 300 c.f.m., EH240; 150 c.f.m., D22A; 100 c.f.m., EP660; also numerous others of all makes; and AIR RECEIVERS from 1ft. to 9ft. dia., 100lb. to 1,000lb. w.p.

FRED WATKINS (ENGINEERING), LTD.,
Coleford, Glos. 'Phone: Coleford 2271/2.

SPECIAL OFFER.

New late 1959, Shawnee Warrior Hydraulic EXCAVATOR and FRONT SHOVEL. For quick sale, first offer list price less £400. Special delivery terms.

DIAL-MEC, LTD.,
47 Castle Street, Hertford, Tel.: Hertford 2456.

FOR SALE. Challenger 2 BULLDOZER, Bray Equipment, Leyland Engine, fitted Cab, first-class condition, can be seen and tried any time.
CHALLENGER 22 also available. — **ARLIGH THRESHING CO., LTD.,** Arleigh, Colchester, Essex. Tel.: Arleigh 207.

FOR SALE. 8in. Gwynnes PUMP: STEEL PONTOON 20 t. x 12ft., Power Winch, Diesel Engines, complete with S.B. and quantity Pipes, in perfect running order. £2,500 where lying.—**THE THORPE GRAVEL PITS, LTD.,** 5 Guardian Road, Norwich, Norfolk S5A.

FOR SALE.—We have a few very good DRAGLINE BUCKETS for Lima or similar machines, 3 1/2yd. 2 1/2yd. and 2yd., complete with Dressings.

PLANT SALES, LTD.,
25 Castlereagh Street, London, W.1. PAD. 2663/5.

AVAILABLE FOR HIRE: EXCAVATORS, BULLDOZERS, DUMPERS, MIXERS, Coles CRANES, etc. All classes of LORRIES, including Low-loaders. **AMEY'S AGGREGATES, LTD.,** Lower Wootton, Boars Hill, Oxford. Oxford 35421.

A 10-TON Electric Morgan Derrick CRANE FOR SALE. Capacity 10 tons at 85ft. radius, 6 1/2 tons at 110ft. radius, jib 120ft., centres 40ft.—**BEECHDALE ENGINEERING,** Beechdale Road, Aspley, Nottingham. Tel.: Nottingham 73035.

TWO 1959 Ennit CONCRETE AGITATORS, little used, mounted on very good chassis, at present working but will shortly be surplus to requirements. **ALAN S. DENNIF, LTD.,** Kiveton Park, Sheffield. Telephone: Kiveton 446.

SLOGGETTS PLANT HIRE

COMPRESSORS OF ALL TYPES

2 Burtons Road, Hampton Hill, Middx.

Telephone: Teddington Lock 1138/9

FOR LIMAS**PLANT SALES LTD.,****25 CASTLEREAGH STREET, LONDON, W.1**

Telephone: PADdington 2663-4

Pointing the way...

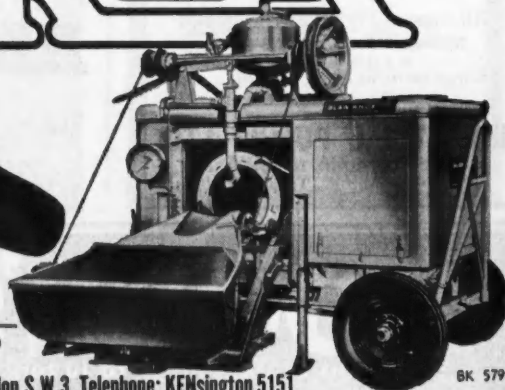
TO CONSTANT ACCURACY IN
PROPORTIONING AND
LOWEST CONCRETE
PRODUCTION COSTS

REX

Complete range . . . 3 1/2T, 5h, 7 1/2T, 10T, 12T and 14T, with choice of steel wheels or pneumatics. Folding Hydraulic Weigher and Drag Loader Shovel available for 7T, 10T, 12T and 14T models. Illustrated literature and prices on request.

BLAW KNOX LIMITED

Box No. 146 90/94 Brompton Road, London S.W.3. Telephone: KENSington 5151



BK 579

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

VALES PLANT REGISTER, LTD.
OFFER FOR IMMEDIATE SALE:

WINGET 14/10 High Discharge MIXER, with Mould Shovel, Diesel driven, good working order, £395.
TWO RANSOMES-RAPIER 21/14 cu. ft. Closed Drum type Electric MIXERS, new 1957/58, £400 and £600 each.
MUIR-HILL 108 3 cu. yd. DUMPERS, 1953, good working order, £395 each.
LOW-LOADING TRAILERS, 3-ton and 7/8-ton, ex Ministry. Also Trailer-mounted TANKS, 250, 500 and 750 gallons.
LOW-LOADING Independent TRAILER, 8/10-ton, unused, new tyres, 13ft. x 7ft. 6in. well, 1ft. 9in. loading height, £515.
AIR PUMPS 2/3-ton COMPRESSORS, Lister Diesel Engines, on 2- or 4-wheel trailers or lorry chassis, ex Ministry, unused. From £440/£485 each.
CLIMAX 315 c.f.m. Stationary and Portable COMPRESSORS, Electric and Diesel drive, £500/£650 each.
AVELING-BARFORD 2 1/2-ton ROLLER, Petter Engine, Sprinklers, good condition, £400.
AVELING-BARFORD 6/8-ton ROLLERS, Scarifier, Sprinklers and Cabs, Perkins Engine, new 1953 and 1955, £1,650 and £2,150 each.
GREENS 8-ton ROLLERS, new Ford Diesel, Sprinklers, Canopy, ex Ministry, £1,300 each.
HUBER 6 1/2-ton ROLLER, Caterpillar Engine, Hydraulic Scarifier, Canopy and Sprinklers, good working order, £550.
PEGSON 16in. x 9in. Portable CRUSHING AND SCREENING PLANT, Ruston Diesel, unused, as new, £750 each. Also 16in. x 5in. and 12in. x 7in.
PARKER Sandwheels DEWATERER, 30/40 t.p.h., Vee drive, little used, £750.
KRUPPS Steel Lined BALL MILL, 5 t.p.h., with motor, little used, £1,700.
CATERPILLAR D8 2U TRACTORS, 6500, 18000, 17000, 21000 Series, with Dozers and Winches. Prices on application.
BTDE TRACTOR and Dozer, new 1955, £1,050.
C.P.O.A.C. G50 PLACER, 8 1/2 cu. ft., £300.
BIRTLEY Caterpillar Model 70 10/12 cu. yd. SCRAPERS, new 1953/54, recently overhauled, £1,150 each.
NIAGARA Merlin WASHING PLANT, 1955, one contract only, £150.
Quantity LARSEN 3 PILING, in 22ft. lengths, and **FRODINGHAM 3**, in 17/30ft. lengths. Good retrievable.
365 Tons FRODINGHAM 4 PILING in 30/58ft. lengths, once driven.
P.30 PORTASLO, 30-ton capacity, with Cement Man and Pulleyway, reconditioned, £425.
WINGET-PARRY CONCRETE TRANSIT AGITATION TRUCKS, 4 cu. yd. capacity, mounted on 2ft gauge Bogies, with Holman Air Units, new 1956.
CATERPILLAR D4 GU TRACTOR, with Dozer and Winch, £1,450.
BLAW KNOX MOBILE BATCHMASTER, Type BM Mk. 3, 21 cu. yd., 3-compartment, December, 1956, very good condition, £575.
FOR A COMPREHENSIVE LIST OF PLANT FOR SALE AND HIRE—SEND FOR VALES FREE PLANT REGISTER.

Further details: 14 Lower Grosvenor Place, London, S.W.1. Victoria 7531, 3501, 8080, 9885 (15 lines).
WANTED, Standard FRONT-END EQUIPMENT plus Crowd Chaining for Lima 1201 Face Shovel. Write Box P.1818, "The Contract Journal."

THE CHEAPEST EXCAVATORS

In the country are available from AXWORTHY.
10RB, 6000 Series, Skimmer/Backacter, £645.
19RB, 5000 Series, Dragline, £925.
19RB, 10000 Series, any one equipment, £1,450.
N.C.K. 304, new 1952, Dragline, £1,950.
24RB, 4000 Series, Dragline, £1,200.
37RB, 9000 Series, Dragline, £3,200.
43RB, overhauled, F/S., £3,950.
 All machines in good working order.

Ring Windsor 60668.
AXWORTHY AND COMPANY, LTD.
 4 Ouseley Road, Old Windsor, Berks.

For Sale

ALLIS-CHALMERS

HD. 5G Tractor Shovel, 1955 £3,000
HD. 7 with Gar Wood hydraulic angle-dozer, Buckeye P.C.U. and Blaw Knox Digma 4 yd. Scraper, 1944 £700
Carco 'E' Winch for International TD.9 £175
Carco 'E' Winches for Fiat 55's £350

FIAT

55L with hydraulic angledozer, reconditioned engine 1952 £975
55L with hydraulic angledozer, reconditioned engine 1954 £975

MACKAY
 of Feltham

Mackay Industrial Equipment Ltd.,
 Central Way, Feltham, Middx. (Feltham 3435)

FOR SALE.

M1/S.—Caterpillar D9, 19A934, fitted with 29 C.C.U. and new 9S Blade, checked over and repainted, £9,250.
M2/S.—Caterpillar D8, 2U5665, fitted with L.P.C. Hydraulic Angledozer, Gar Wood C.C.U., good sound working order, £2,000.
M6/S.—Caterpillar D4, 2T554, bare machine, reconditioned, guaranteed three months, £1,750.
M7/W.—Caterpillar D8, 8R3735, with L.T. Winch and Cable Blade, good sound working order, £1,250.
M8/W.—Caterpillar D8, 8R3703, with L.T. Winch only, good sound working order, £750.
M10/S.—Caterpillar D8, 2U7284, with Birtley 8A Hydraulic Blade, overhauled and repainted, £2,750.
M12/L.—International TD18A, TDR22353, with Hydraulic Angledozer, P24 Winch, good working order, £1,100.
M13/L.—Caterpillar D8, 22A12, with 8A Cable Blade 77C86, 29 C.C.U. as new, £10,500.
M14/L.—Caterpillar D6, 8U10770, with Hydraulic Angledozer Equipment, as new, £5,750.
M15/S.—Caterpillar D7, 7M9989, with L.T. Winch and Cable Angledozer, excellent condition, £1,750.
M16/W.—Bray HYDRALOADER, 127172, with 3 yd. Bucket, 1 yd. Blade, Snow Plough, Cab, spare wheel, sound little machine, £550.
M17/S.—Weatherill LOADING SHOVEL, 2HCR0684, with 3 yd. Bucket, Fordson Power Major Engine, very little used, £600.
M18/W.—Caterpillar D6 (wide gauge), 2H7809, with L.T. Winch and Cable Blade, fair condition, £400.
E1/S.—No. 46 H.C.3W 496 Arr. 4 F.998 for Caterpillar D6 4R and 5R, new, £200.
E2/S.—No. 48 H.C.25C 11721 Arr. 117116 for D6 8U and 9U Dozer/Ripper, new, £250.
E3/S.—No. 46C 25C 11719 Arr. 11116 for D6 8U and 9U Dozer/Ripper, new, £250.
E4/S.—No. 46 25C 11345 Arr. 6F 135 for D6 4R and 5R, new, £250.
E5/S.—955 ANGLEDOZER, new, £400.
E7/S.—TRANSMISSION UNIT and FINAL DRIVE GEARS for D8 8R, £400.
E8/S.—GEARBOX for D8 8R, £100.
E9/S.—Wright's No. 40 Hydraulic SCRAPER, new, £500.
E10/S.—No. 44 H.C. 25C 14424 Arr. SF.860 for D6 9U, new, £500.
E11/S.—No. 44 H.C. 5W 23938 Arr. BF 9792 for D4 6U, new, £300.
E13/S.—D4 Onions 12A C.C.U., as new, £225.
E14/S.—L.P.C. 12yd. SCRAPER, £75.
E15/S.—L.T. Winch and Cable Operating ANGLE-DOZER for D4 Model 2H, £100.
E16/W.—L.T. 6yd. SCRAPER, twin wheels all round, £50.
H. LEVERTON AND CO. LTD.,
 Spalding, Lincolnshire. Tel.: Spalding 3221.

DELMAG Diesel PILE HAMMERS for HIRE . . .
 Our fleet of these fine machines is the biggest in Britain. Models D5, D12 and D22 available with rope suspended leaders and leg guides, suitable for driving any section of pile.

DUDLEY VALE, LTD.
 3 Buckingham Place, London, S.W.1. Victoria 0252.

FOR HIRE or SALE.
 Caterpillar BULLDOZERS and SCRAPERS.
 Apply BENT-MARSHALL (STEBBING), LTD.,
 Stebbing, Essex. 'Phone: Stebbing 245.

3/2 MIXERS 'Half-Bag'

FOR HIRE

30/- PER WEEK

PETROL OR ELECTRIC—I PHASE

JOHN MACNAMARA & CO. LTD.,
 Bush Rd., Deptford, London, S.E.8 Bermondsey 3275-1435

FOR HIRE

Drott TRACTOR SHOVELS with
 4-in-1 Equipment. BTDE Angle-
 dozers. Tipplers.

Let us quote you for EARTHMOVING,
 SITE CLEARANCE, EXCAVATION, etc.

WANTZ PLANT HIRE LTD.,
 87 GLENNY ROAD, BARKING, ESSEX.

'Phone: Rippleway 1725, Rainham, Essex, 3844 & 3832

SURPLUS TO OUR OWN REQUIREMENTS.

The following Plant is offered for SALE from our own large fleet of machinery. These items are now surplus to our present requirements due to delivery of new plant.
OP.216.—Two BTDE International TRACTORS, Serial Nos. 6399 and 6796, complete with Bulgraders. The first machine was purchased new by us in February, 1958, and the second machine in April, 1958, £1,500 each.
OP.213.—One Second-hand 19RB EXCAVATOR, Serial No. 9391, powered by Ruston 4VQBN Diesel Engine, fitted with Skimmer/Backacter Equipment, £1,250.
OP.209.—One Second-hand 10RB EXCAVATOR, Serial No. 16673, powered by Ruston Diesel Engine, fitted with Skimmer/Backacter Equipment, £1,600.
OP.208.—One Second-hand 10RB EXCAVATOR, Serial No. 12566, powered by Ruston Diesel Engine, fitted with Skimmer/Backacter Equipment, £1,250.
OP.200.—One Second-hand 19RB SKIMMER/BACK-
 ACTER EQUIPMENT, in first-class condition, £325.
OP.183.—One Second-hand 10RB DRAGLINE EQUIP-
 MENT, with 28ft. Channel Jib, Fair Lead, Bucket, Back Balance Weight and Boom Suspension
 Bridle for rear "A" frame, £180.
OP.186.—Two Second-hand Neals NM MOBILE
 CRANES, powered by Ruston Diesel Engines,
 mounted on pneumatic-tyred wheels, fitted with
 either 25ft. Channel Jibs or, alternatively, with
 35ft. Lattice Jibs, and Safe Load Indicators, £875
 each.
OP.178.—Two Second-hand Neals Model G 15cwt.
 CRANES, powered by petrol engines, fitted with
 20ft. Lattice Jibs, £200 each.
OP.206.—One Second-hand Aveling-Barford Model
 GD2 10/12-ton Diesel ROAD ROLLER, Serial
 No. GD00895, powered by Ruston 3VSHR Diesel
 Engine, complete with Water Tank, Sprinklers,
 Sliding Counterweight and totally enclosed Cab
 and 2-tine Scarifier, delivered new December,
 1948, £1,750.
OP.207.—One Second-hand Broomwade Model SV128
 Portable COMPRESSOR, powered by Lister Diesel
 Engine, mounted on four pneumatic-tyred wheels.
 Machine delivered new March, 1957, £625.
OP.212.—Choice of 17 Second-hand C.P.T. Portable
 COMPRESSORS, 125 c.f.m. Some of these machines
 are powered by Caterpillar Diesel Engines
 and the others by Ruston 3VRO Diesel Engines.
 Some Compressors are mounted on solid rubber
 wheels and the remainder on pneumatics. Year
 of manufacture varies between 1942 and 1947.
 From £250/£350 each. (Prices are according
 to age and condition.)
OP.211.—Two Second-hand C.P.T. Portable COM-
 PRESSORS, 210 c.f.m., powered by Caterpillar
 Diesel Engines, £425 each.
OP.214.—One Second-hand Benford 18/12 Reversing
 Drum MIXER, complete with Integral Weigher
 and Drag Scraper. Machine approx. 15 months
 old, £825.
GRAYSTON PLANT & ENGINEERING CO. LTD.,
 32 Stewarts Road, London, S.W.8.
 Tel.: Maccallay 6588 (10 lines).

BRISTOL 22 DOZER, sound condition, Perkins
 Diesel.
 2-ton HYDRACRANE, rebuilt, new engine, chassis, etc.
BERESFORD ATKINSON, LTD.,
 Hough House, Moston, Manchester, 10.
 Tel.: Maccallay 2991/2.

FOR SALE, BULLDOZER, David Brown Model 50TD,
 late 1955.—Tel.: MIT 4082.

FOR SALE

Lima 2400 EXCAVATORS, with Dragline and Forward
 Shovel. Choice of four.
Marion 111M EXCAVATORS. Choice of two.
Lima 1201 EXCAVATORS. Choice of two.
Ruston 100B EXCAVATOR, Diesel/Electric.
 All machines in excellent condition, may be seen
 working, and are open to any inspection and trial.
 Immediate delivery.
 Call, write or 'phone:
A.R.C. MOTOR CO., LTD.
 Redhill Works, Arnold, Nottingham. Tel. 26-3331/5.

FOR HIRE

ALL BUILDERS' PLANT

Alloy and Steel Scaffold tube,
 boards, fittings, Acrow props,
 concrete mixers, etc.

Prompt delivery, competitive prices and
 terms arranged

M. SANDERS LTD.

18/20 Medlar St., London, S.E.5. ROD 5143

PLANT HAULAGE OF EVERY DESCRIPTION

LOW LOADING &
 UTILITY VEHICLES

CATTERMOLES (Transport) LTD.

79-89 PENTONVILLE ROAD, LONDON, N.1



TERMINUS 1001
 (7 lines)

ESTABLISHED
 OVER
 100
 YEARS

PLANT AND MACHINERY WANTED—FOR SALE—FOR HIRE

PLANT FOR HIRE

Model G500 CONCRETE PLACER UNITS.
Broommade AIR COMPRESSORS, powered by Dorman Diesel Engines, 400 c.f.m.
Winget 14/10 Tilt Drum CONCRETE MIXERS, Built-in Weighers.

Winget 14/10 Closed Drum MIXERS.
Stothert and Pitt 21/14 Closed Drum MIXER.
15cwt. Neals CRANES.

PLANT FOR SALE:

Two 12in. dia. Model CF3 Compressed Air driven FANS, complete with 16in. to 12in. Reducers and 800ft. of Blue Quality Mictube in lengths of 100ft., 50ft. and 25ft.
One 9 cu. yd. Ruston SCRAPER, Model 590.
One 6 cu. yd. Le Tournau SCRAPER, Model M.
One Neals 12cwt. 4-in-1 CRANE, mounted on four steel wheels, Petrol Engine.
One Jones Super 12 CRANE, 18ft. Lattice Jib, mounted on four steel wheels, Petrol Engine.
One 30-ton Blaw Knox Super SILO.
One Stothert and Pitt 21/14 Closed Drum MIXER, new Diesel Engine.

EXCAVATOR EQUIPMENT:

16RB BACKACTOR.
16RB SKIMMER.
Ruston No. 4 DRAGLINE.
Ruston No. 4 BACKACTOR.
Ruston No. 4 SKIMMER.

THOMAS FLETCHER AND CO., LTD.,
Forest Road, Mansfield. Telephone: Mansfield 1741.

CONCRETE MIXERS FOR SALE.

5/3 1/2 Winget Diesel, on four steel wheels, in excellent order.

5/3 1/2 Winget Electric, on four steel wheels, in first-class condition.

5/3 1/2 Benford, on four steel wheels, Petter or Lister Diesel.

5/3 1/2 Winget, Stothert and Pitt, Lister, Maximixam, Goodwin, Parker and British Wonder; Petrol driven.

10/7 Winget, Millars, Stothert and Pitt, Ransomes and Rapier, and Rex, Tilting and Closed Drum; Electric, Petrol or Diesel.

14/10 and 18/12 Ransomes and Rapier, Millars and Rex; Closed Drum, Electric, Petrol or Diesel.

4ft. 6in. PAN MILLS; Electric, Petrol or Diesel. 50 or more machines usually in stock, from £35 each, delivered.

W. V. DAVIES, Concrete Mixer Service, Shipston-on-Stour. Phone 125.

FOR HIRE—Available immediately, 1201

LIMA, fitted with genuine American 100ft. Crane Boom, Back Haul Gear, Bridge, etc., and in first-class condition.—PLANT SALES, LTD., 25 Castlereagh St., London, W.1. Telephone: Paddington 2663/5.

FOR SALE, 423 Ransomes Rapier, three equipments,

or would EXCHANGE for 19RB with Face Shovel; with cash adjustment.—A. H. HOOKER AND SONS, LTD., Leeds, Maidstone, Kent.

FOR HIRE, Smiths 2/10 EXCAVATOR, with three

Equipments.—EARL, Kinderton Street, Middlewich (Tel. 81), Cheshire.

FOR SALE OR HIRE

NCK 304 Excavators. All equipments, 19RBs, 10RBs, JCBs. D7, BTD 6. Scrapers. Rollers. Compressors. Drotts. Dumpers

PETERBOROUGH PLANT HIRE CO.
NEWARK RD., PETERBOROUGH Tel: 5558

WELDERS
1958

300 amp. LINCOLN PORTABLE
DIESEL SETS

FOR HIRE

Very Keen Rates — For Long Term Hires

MOORE'S PLANT LIMITED

105-129 MARKFIELD ROAD, N.15

Phone: TOTtenham 0401/8

NEAGRON (CONSTRUCTION), LTD.

OFFER FOR SALE:

BERKELEY 4-berth CARAVAN, fully fitted, new 1955.
C.P.T. 210 cu. ft. Portable COMPRESSOR, Ruston 3VHR Diesel Engine, new 1953.

NEALS NM Mobile CRANE with Jib to 35ft., Ruston 2VTO Diesel Engine.

JONES Super 40 Mobile CRANE, Crawler-mounted, 40ft. Lattice Jib, Ruston 2VTH Diesel Engine.

NEALS QMS Mobile CRANE, 30ft. Swan Neck Jib and Safe Load Indicator, new 1955.

HENDERSON 7-ton Electric Derrick CRANE, 100ft. Jib, 400/3/50 supply, new 1951.

MORGAN 10-ton Electric Derrick CRANE, 120ft. Jib, 400/440/3/50 supply, new late 1954.

COLES 5-ton capacity Lorry-mounted CRANE, 30ft. Jib, Perkins P6 Diesel Engine.

LORAN Motocrane 20-ton U.S. capacity Lorry-mounted CRANE, Model 6620, 30ft. Jib, Waukesha Gasoline Side Valve Engine, machine never used, new 1952.

PINGON P15 Rail-mounted TOWER CRANE, 66ft. Saddle Jib, equipped with travelling undercarriage and arranged for 400/3/50 supply, new 1959.

LIEBHERR Type 40A Luffing Jib TOWER CRANE, new 1958.

10RB 3/4 cu. yd. EXCAVATOR, with Skimmer and Backactor Equipments, Ruston 3VHR, electric start, new 1954.

WINGET 5/3 1/2 cu. ft. CONCRETE MIXERS, Lister Diesel Engines, Model LDI.

MILLARS 14/10 cu. ft. CONCRETE MIXER, Diesel Engine, Integral Weighgear and Dalli Loading Shovel, new 1956.

LINER 10CT 14/10 cu. ft. Cumflow MIXER, 16-gallon Water Tank, Loading Hopper, discharge height 3 ft., Petter AVA2 Diesel Engine, new 1952.

PORTASLOS, Model P13, 13-ton capacity, fitted 250lb capacity Mechanical Weighman, new 1955.

PUMPCRET, PC3 Model, 6in. CONCRETE PUMP, electric motor 400/3/50 supply.

MERTON (Two-way) OVERLOADER, fitted 1 cu. yd. Bucket with teeth, hydraulically operated with Double-acting Main Rams and lighting equipment, mounted on Fordson Tractor, powered by Fordson 45 Diesel Engine, new 1957.

CATERPILLAR 955 12A Series TRACTO-SHOVEL, fitted 1 1/2 cu. yd. reconditioned Side Dump Bucket.

CATERPILLAR D4 TRACTOR, 60 model, 3000 Series, fitted Birtley Hydraulic Dozing Equipment, Model D.L.T. 4 cu. yd. Scraper, overhauled August, 1959, new tracks fitted November, 1959, new 1951.

FURTHER DETAILS:
Abbe House, Victoria Street, London, S.W.1.
Telephone: ABBEY 5152 (4 lines).

FOR SALE, new December, 1957, Bray BL430

LOADING SHOVEL, in excellent condition, 4-wheel drive, 1 cu. yd. Bucket, £1,400 o.n.o., with guarantee.

DIAL-MEC, LTD.,
47 Castle Street, Hertford. Tel.: Hertford 2456.

URGENTLY required to PURCHASE 6-ton Coles,

Nea's or Jones Mobile CRANE, on pneumatics. Write full details to Box P.1783, "The Contract Journal."

CATERPILLAR TRACTOR OWNERS

Can ring AXWORTHY AND COMPANY, LTD., at WINDSOR 50658 for unused Caterpillar SPARES from the large and comprehensive stocks available. Prices are well below list and give substantial savings. Despatch ex stock. Panic service in emergencies.

AXWORTHY AND COMPANY, LTD.,

4 Ouseley Road, Old Windsor, Berks.



WEYDOWN ROAD,
HASLEMERE, SURREY
Telephone: HASLEMERE 2294/5

PLANT HIRE & SALE

Excavators

Bulldozers

Scrapers

Mixers

Pumps, etc.

★

Spares from stock.

NOBLE PLANT AND ENGINEERING CO.,

75 Terrace Road, Walton-on-Thames, Surrey.
Telephone: Walton-on-Thames 23693-4.

PLANT FOR SALE OR HIRE:

37RB, No. 7328 6VPHN, Dragline or Shovel, overhauled, £3,850.

22RB EXCAVATOR, No. 23570, Dragline or Shovel, as new, £5,750.

10RB EXCAVATOR, No. 23147, 3YCN Diesel, choice of equipment, £3,000.

Benford 1 1/2 cu. yd. DUMPS, year 1955/56, overhauled, £140 each.

Benford 5/3 1/2 Diesel MIXERS, 1954/56, £85 each.

Chasideside 30cwt. DUMPS, 1958, AVA2 Diesels, £300 each.

Air Pumps COMPRESSOR, 160 c.f.m., Ford Diesel, year 1958, excellent order, £575.

Two C.P.T. COMPRESSORS, fast towing, Ruston Diesel, £200 each.

19RB and 22RB DRAGLINE EQUIPMENTS, £390 each.

19RB and 22RB FACE SHOVEL EQUIPMENTS, £475 each.

11B INSERTS for N.C.K. and 19/22RB Excavators, new, £35 each.

Multico 12in. SAWBENCH, Electric, Rise and Fall Table, first-class, £70.

A.C.E. Comet Mobile HOIST, Petter Diesel, £150.

Ruston 1 1/2 yd., 1 1/2 yd. and 3 yd. AX BUCKETS, first-class. Reasonable price.

MOSKOW-RAIL, any quantity. Half-price.

One Onions 13 yd. SCRAPER, EH, year 1954, excellent condition, £1,250.

DINKUM DIGGER, 1954, excellent condition, £475.

Weaver STEAM CLEANER, Electric, £95.

Hyster WINCH, D7N, as new, with shafts and levers, £250.

D7 WINCH, Model R7C, complete with shaft and levers, as new, £225.

Muir-Hill SHOVEL, Ford Diesel, 1956, fully hydraulic, £625.

Stothert and Pitt 28W VIBRATORY ROLLER, 1958, £200.

R. and R. 423 DRAGLINE EQUIPMENT, complete, £200.

10BD Muir-Hill DUMPER, PG Engine, 1951, £200.

Further details from:
NOBLE PLANT AND ENGINEERING CO.,
75 Terrace Road, Walton-on-Thames, Surrey.
Telephone: Walton-on-Thames 23693-4.

FOR SALE OR HIRE: JUBILEE TRACK; TIPPING

WAGONS; BOGIES, etc.; B.H. and F.B. RAILS for relaying or shoring; Pierced Steel PLANKING and SHUTTERING PANELS; HAND WINCHES; SHEAR LEGS; CHAIN BLOCKS; CRANE BUCKETS; LIFTING JACKS; STORAGE TANKS; GIRDERS; ANGLES; CHANNELS and ROOF TRUSSES; Steel Frame and Woodwork Section BUILDINGS; Steel and Cast-Iron TUBING up to 24in.—CYMRIC TRADING CO., LTD., Llandaff, Cardiff.

FOR SALE:

One Priestman Wolf EXCAVATOR, No. A5149, with Backactor Equipment, £500.

One 1952 Broomwade 2-Ton COMPRESSOR, Type SV128, £350.

PRIDMORE AND BROADHEAD, LTD.,
Civil Engineering Contractors,
Neale Road, Wheatley, Doncaster, Yorks. Don. 2079.



EXCAVATORS:

Smith 21 Diesel-driven Excavator, mounted on crawler tracks, fitted any front end equipment, 3/4 cu. yd. capacity, Gardner 6-cyl. Diesel Engine, electric starting equipment.

Smith Super 10 Diesel-driven Excavator, mounted on crawler tracks, fitted any front end equipment, powered by Gardner 3-cyl. Diesel Engine, electric starting equipment.

Allie 12 1/2 Diesel-driven Crawler Trencher, fitted Dorman Diesel Engine, 21in. wide Buckets, good condition.

LOADING SHOVELS:

Merton Frontloader, 3/4 cu. yd. capacity, powered by Fordson 4-cyl. Diesel Engine, mounted pneumatic-tired wheels, nearly new.

Weatherill 12H Hydraulic Loading Shovel, 3/4 cu. yd. capacity, powered by Fordson 4-cyl. Diesel Engine, pneumatic-tired wheels, new condition.

Chasideside Rope O-erated Loading Shovel, 1/2 cu. yd. capacity, Petrol Engine, fair condition. Cheap for quick sale.

FORK-LIFT TRUCKS HANDLING EQUIPMENT:

Ex Demonstration Model Steelmaster Straddle Carrier, 22,000lb. capacity, Perkins P3 Diesel Engine, suitable for handling concrete pipes, timber, etc.

Second-hand 1-ton capacity Hirst Battery Operated Fork Lift Truck, to lift 1 ton at 18in. centres to height of 10ft. Lift, complete with battery charger.

3,360lb. capacity Coventry-Climax Diesel-driven Fork Lift Truck, pneumatic tyres, 11ft. 6in. height of lift, mast fitted rotating head, excellent condition.

4,000lb. capacity Conveyor Diesel-driven Fork Lift Truck mounted cushion tyres, 12ft. height of lift, Model D-4-24, good order.

2-ton capacity Lansing-Bagnall Pedestrian Operated Electric Pallet Truck, 4in. lift, good condition.

B.S.A. Railway Wagon Truck Shunting Machine, powered B.S.A. Petrol Engine.

CRUSHING PLANT:

12in. x 8in. Marsden Portable Diesel-driven Stone-breaker and Screen, single toggle type, cast-iron body, powered Ruston single-cylinder hopper-cooled Diesel Engine, Loading Platform, mounted metal road wheels, excellent.

16in. x 9in. Parker Portable Diesel-driven Stone-breaker and Screen, cast-iron body, powered Blackstone single-cylinder Diesel Engine, circular revolving underhung screen with 3-in., 1 1/2-in. and 2 1/2-in. perforations, Loading Platform, mounted on four steel road wheels, front wheel and drawbar, output 10/12 tons per hour.

20in. x 9in. Baxter Stationary Crusher, knapping type, two flywheels, output 15 tons per hour, cleaned, checked over and ready for work.

SECOND-HAND RECONDITIONED MOTOR WAGON WEIGHBRIDGES:

50-ton capacity Avery, Platform 25ft. x 12ft., fitted dial indicator.

20-ton capacity Ashworth, Platform 20ft. 6in. x 8ft., fitted steelyard.

20-ton capacity Parsons, Platform 20ft. x 8ft., fitted steelyard.

10-ton capacity Pooley, Platform 14ft. x 8ft., fitted steelyard.

THOS. W. WARD, LTD.,
ALBION WORKS - - - SHEFFIELD

Phone: 26311—Ext. 367.

There is no better medium than

THE CONTRACT JOURNAL

for small classified advertisements

Telephone for linage rates to

WATERloo 3411



Photograph from "Introducing Animals" published by Spring Books, London

HIP, HIP, HIP ... HURRAH!

And who wouldn't be cheering when production problems are solved, output is flowing freely and business is more prosperous than ever. All because of a length of Dunlop hose! It's so efficient; so economical. Tough as a hippo's hide and far more dependable. It's just what every engineer needs to cope with the rigorous conditions in industry today. No wonder there are Dunlop hoses in mining and factory installations all over the world.

DUNLOP HOSE

DUNLOP MAKE HOSE BETTER TO LAST LONGER

DEPT. B.G.2, DUNLOP RUBBER CO. LTD. (HOSE DIVISION), EARLSWAY, TEAM VALLEY GATESHEAD 11

CPH/DH/113

"This is the cheapest way of moving muck" say

"and these Shawnee-Pooles have stayed on the job"



The only system of
earth-moving haulage that gives you
up to 110° of turn and saves
up to 50% in total operating costs.

SEE LISTING
Write today for your copy of the Shawnee-Poole book from:

STEEL FABRICATORS (CARDIFF) LTD., PENGAM ROAD, CARDIFF. Tel: CARDIFF 44436/7/8/9

say *Wally Walster, General Manager of Twentieth Century*

all the time" says *Eddie Peters, Plant Manager of Twentieth Century*



The Shawnee-Poole System is "the cheapest way of moving muck" because operating costs are down a 50 H.P. level, but output is up at 7 cu. yd. level and Shawnee-Poole's mobility and manoeuvrability keeps these units on the job all the time, under the worst site conditions.

The fleet of Shawnee-Pooles were originally brought in on the Maldstone contract for a nine-week hire period which has been extended beyond five months, and during this period the seven units have often been the only vehicles which would operate in the extreme conditions of mud on this site.

Fuel consumption is always less than 1 gall. per hour, and Twentieth Century also report that all other items of operating cost are lower, and that maintenance costs are negligible.

The Shawnee-Poole System, with the shortest turning circle of any equipment of its kind, is the world's simplest and most economical method of hauling earth.

Shawnee Poole

**System of MOBILITY & ECONOMY
IN EARTH-MOVING HAULAGE**



Export enquiries to: STEEL FABRICATORS (OVERSEAS) LTD., 1 BAKER ST., LONDON W.1. Tel: WELbeck 0751/2 Cables: STEELOADER, LONDON

Designed for the job!



SCAMMELL

The name that carries WEIGHT everywhere!

The great new range of Scammell Dump Trucks—with every model designed to stand the toughest conditions—offers capacities from 6 to 20 cubic yards.

Cripps are proud to be handling such outstanding machines and to back the famous Scammell name for dependability with their own for good service.

DUMP TRUCKS

SOLE CONCESSIONAIRES
IN THE UNITED KINGDOM
FOR
SCAMMELL DUMP TRUCKS

CRIPPS

Write for details to:— **R. CRIPPS & COMPANY LIMITED**
NOTTINGHAM Telephone: 71161 MANCHESTER Telephone: Trafford Park 1658 SHILDON Telephone: 261
ESTABLISHED 1891—CONTRACTORS TO H.M. GOVERNMENT



each morning...

FONDU CONCRETE

placed the previous day
has attained
enormous strength

For Trench Reinstallments, Floor Repairs and Renewals, Steps, Sewerage and Drainage work, CIMENT FONDU is unequalled. Pipes jointed with CIMENT FONDU mortar can be smoke tested within a few hours of jointing.

Remember—for most purposes concrete made with CIMENT FONDU is ready for use 12 to 15 hours

after placing, and at 24 Hours it is stronger than other cements 90 Days old. Also, used with suitable aggregates, CIMENT FONDU produces Refractory and Insulating concretes of the very highest quality.

Let us send you our 32-page Booklet "THE CEMENT FOR INDUSTRY".

The Cement for Industry

FOR SPEED · STRENGTH · RESISTANCE · REFRACTORINESS

LAFARGE ALUMINOUS CEMENT CO. LTD. 73 Brook Street, London, W.1. Tel: MAYfair 8546



AP/120

Excavators

Dumpers

Tracked Cranes

Compressors

Tractor Shovels

Mobile Cranes

Lorry Mounted Cranes

HIRE IT FROM ARUPS

For these and all other types of Plant
Phone: **GERRARD 2708**

ARUP & ARUP LTD., COLQUHOUN HOUSE, BROADWICK ST., LONDON W.1.

**Prompt and Efficient Service
for your TRACK-MARSHALL**

and



sales, maintenance and hire—

A. J. WARD

and Sons Ltd.

Thorpe Lea Engineering Works

Egham, Surrey

Telephone: STAINES 54111/2/3

FLEXPIPE'S EXTRA 2ft LENGTH



CUTS COSTS!

Longer lengths cut laying time

Flexpipe—the latest development in pitch-fibre piping—comes in 10 ft. lengths instead of 8 ft. This means that any length of piping can be laid as much as 20% faster with Flexpipe than with any other pitch-fibre pipe—an important saving in labour costs.

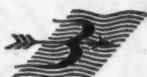
Less jointing cuts material costs

This extra length also reduces the number of joints needed on any job—a valuable saving in jointing materials.

Flexpipe is available NOW in both 4" and 6" internal diameters—and costs no more than other pitch-fibre pipes.

AND REMEMBER FLEXPIPE HAS THESE OTHER ADVANTAGES...

- (a) Much easier to transport, stack, and handle — one man can carry three or four Flexpipes at a time without any sense of strain. If he drops them — they're unbreakable!
- (b) No jointing compound required: Flexpipes are joined together with a collar that can be simply knocked on with a hammer and a block of wood. The joint is then completely sealed.
- (c) Flexpipe cannot crack under earth movements and is corrosion-proof.
- (d) It can be sawn to any length as easily as wood.



Flexpipe

PITCH-FIBRE PIPES

FLEXPIPE LIMITED, Bowater House, Knightsbridge, London, S.W.1 Tel: KNightsbridge 7070. Now a member of the Bowater Organisation

CRCI

BULK EXCAVATION

FOR HIRE OR CONTRACT

ALL TYPES OF EARTHMOVING EQUIPMENT

Including Caterpillar DW.21 M/Scrapers,

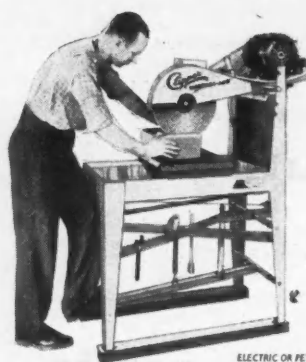
D9, D8, D7, Dozers and Scrapers,

Caterpillar Graders, etc.

C. A. BLACKWELL (CONTRACTS) LTD.

A MODERN FLEET BACKED BY
FIRST-CLASS MAINTENANCE STAFF AND
FIFTY YEARS OF EARTH MOVING EXPERIENCE

COGGESHALL ROAD, EARLS COLNE, ESSEX
TEL: EARLS COLNE 537-8



MODEL GW

ELECTRIC OR PETROL DRIVEN

CUT YOUR COSTS with

Clipper
MASONRY SAWS

— over 40,000 Clipper users have cut theirs

FACING
BRICK
Cut in 8 secs.

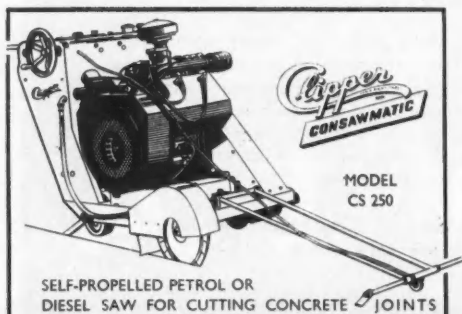
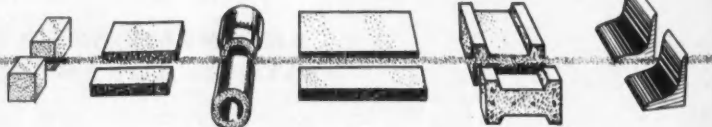
QUARRY
TILE
Cut in 12 secs.

GLAZED
PIPES
Cut in 20 secs.

PAVING
SLABS
Cut in 30 secs.

REINFORCED
CONCRETE
Cut in 30 secs.

ANGLE IRON
Cut in 15 secs.



MODEL
CS 250

SELF-PROPELLED PETROL OR
DIESEL SAW FOR CUTTING CONCRETE JOINTS

LOOK AT THESE AMAZING CUTTING TIMES—they prove that costly hand cutting is now obsolete. If you need fast, accurate cutting, cut with CLIPPER. ONLY CLIPPER gives you ALL the features necessary for the most economical masonry cutting.

Look for the bright orange centre of GENUINE CLIPPER SUPERIOR BLADES

**THERE'S A
CLIPPER BLADE
FOR EVERY
JOB!**

CLIPPER C.B.R. BLADES ARE
VIRTUALLY UNBREAKABLE



Write **NOW** for **FREE DEMONSTRATION**

We will gladly demonstrate—on your own site—

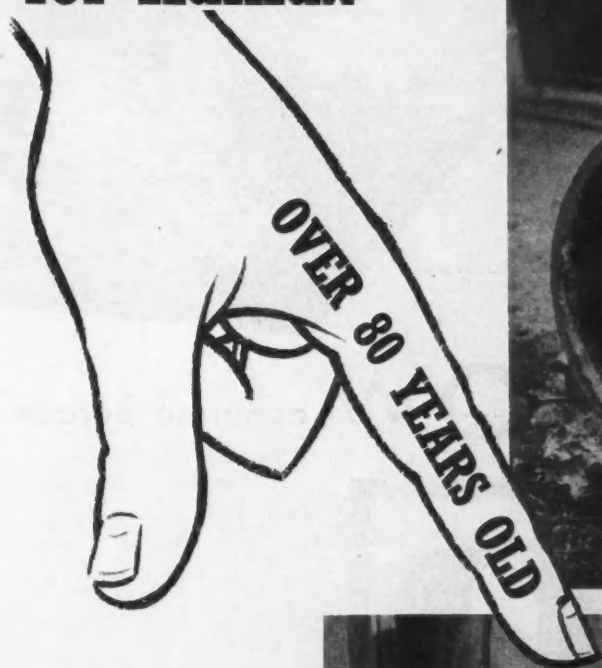
WITHOUT OBLIGATION

or send for **FREE Literature** to:—

THE CLIPPER MANUFACTURING COMPANY LTD.

SERVING THE WORLD AS THE WORLD'S LARGEST MANUFACTURERS OF MASONRY SAWS
107, BARKBY ROAD., LEICESTER. Telephone: LEICESTER 67847. Telegrams & Cables: CLIPPER, LEICESTER.
Offices and Factories: ENGLAND, U.S.A., FRANCE, GERMANY & ITALY

In the main — it's money for Halifax



STAVELEY

**SAND &
METAL
SPUN
PIPES
for
WATER MAINS**

This Staveley 6 mile-14" main was laid at Halifax in the 70's.

Exposed for examination, it was found to be in such good condition that Halifax Corporation Water Engineer & Manager, Arnold L. Gray, B.Sc., A.M.I.C.E., M.I.W.E., decided to line it internally with cement mortar. The cleaning and lining was carried out by Mowlem-Centriline of Westminster and these Staveley pipes started a new lease of life —which in the main is money.

THE STAVELEY IRON & CHEMICAL CO. LTD.,
Nr CHESTERFIELD

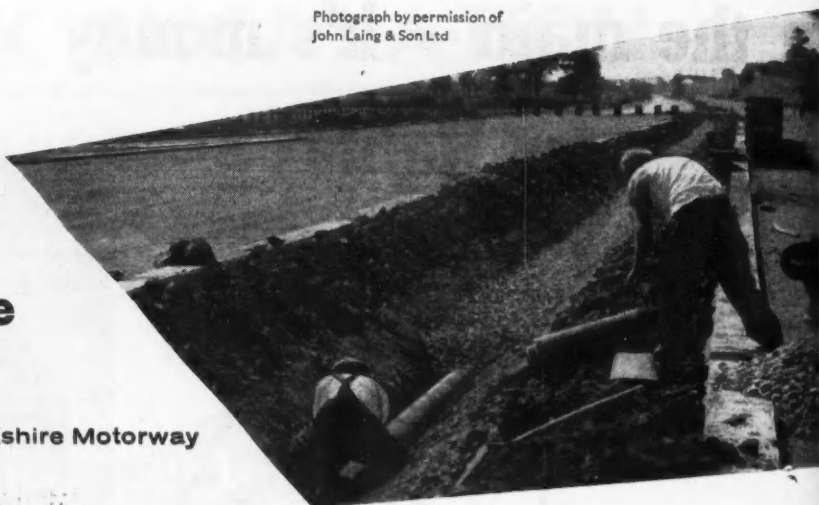
Telephone: Chesterfield 7251

Photograph by permission of
John Laing & Son Ltd

Another drainage job well done

Over 60 miles of pipes used

on the London-Yorkshire Motorway





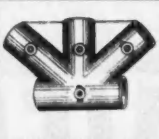













RAINBOW concrete porous pipes



Full range of sizes available
Large mature stocks
Immediate delivery, any site
Illustrated literature sent on request

RAINBOW INDUSTRIES LTD
Pollington Goole Yorks
SNAITH 312 (4 lines)

 EAVES FITTING	 RIDGE FITTING	 LONG TEE	 SHORT TEE	 KING POST FITTING	 HAND RAIL FITTING
 PORTAL EAVES	<p>USE</p> <h1>Tubeclamps</h1> <p>FOR ALL TUBULAR CONSTRUCTION</p>				 CORNER SWIVEL
 SINGLE SOCKET SWIVEL					 ELBOW
 CROSSOVER	 BASE SOCKET	 CORNER FITTING	 TWO WAY SOCKET CROSS	 SPLIT TEE	 JOINING SLEEVE
<p>Works OLD HILL STAFFORDSHIRE Telephone CRADLEY HEATH 69181-2-3-4-5</p>		<p>Tubeclamps 6. LYGON PLACE LTD LONDON, S.W.1</p>		<p>Telephone SLOANE 1698 OR 7391-2-3</p>	



SQUEEZE

Squeeze—an admirable quality in rubber toys, though out of place in a vulcanised electronic component. In a rubber product you may want compressibility—or not. But in rubber specifications, never. No "squeeze" on quality. For consistent quality INTOL is the answer.

Intol SB Rubbers are made by I.S.R. Intol is always clean, always the same in composition. With Intol, blending and processing are simpler and surer. Leading rubber users specify Intol without hesitation because they know where they are with I.S.R. and they save money because the prices are stable.

INTOL SB Rubbers are now produced in a range of eight grades of solid rubber and four latices. Please write for details.

INTOL Synthetic Rubber

stable price — consistent quality — assured delivery — technical service

The International Synthetic Rubber Company Ltd.
 Southampton • Tel: Blackfield 3141 • Cables: INTOL HYTHE
 London • Tel: Langham 0711 • Cables: INTOLRUB LONDON
 Manchester • Tel: Pyramid 1941 • Cables: INTOL MANCHESTER



SINCE INTRODUCING THE TECHNIQUE TO THIS COUNTRY



CJB THRUSTBORE TEAMS
have completed

1½ MILES OF
HORIZONTAL BORES
involving the removal of
55,000 CUBIC FEET OF
SOIL in sizes ranging from
10" to 42" DIAMETER
under
44 RAILWAYS, 17 ROADS
AND 16 RIVERS
AND CANALS

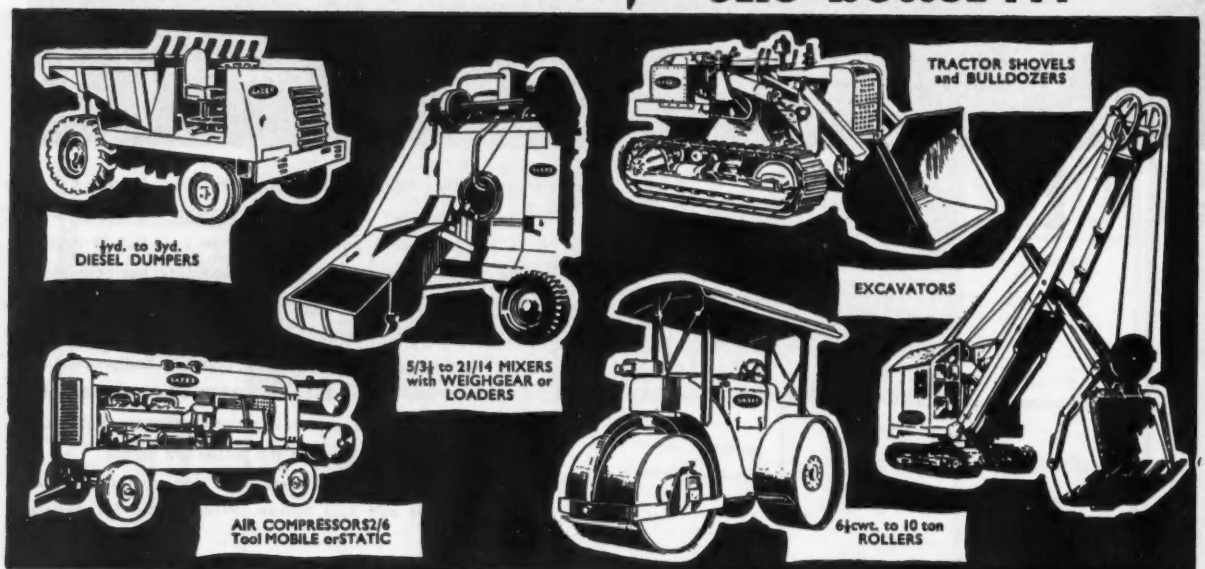
CJB

CONSTRUCTORS JOHN BROWN LIMITED

CJB HOUSE, EASTBOURNE TERRACE, PADDINGTON, LONDON W.2. Telephone: AMBASSADOR 8080. Cables: CIVANIC, LONDON.

Gazeway

**The Plant Hire
Service that goes
one better...**



At Gazeway we are available 24 hours a day to meet your requirements, so remember — whatever plant or equipment you need to buy or hire, contact Gazeway first.

TODAY'S WAY IS THE GAZEWAY

See our advertisement on the classified Plant pages

Portsmouth Road, Thames Ditton, Surrey.

**GAZEWAY
PLANT HIRE
LIMITED**

One of the GAZE Group of Companies

Telephone: EMBerbrook 5511 & 6147 (Night 6147)

the growing

ALCON

range

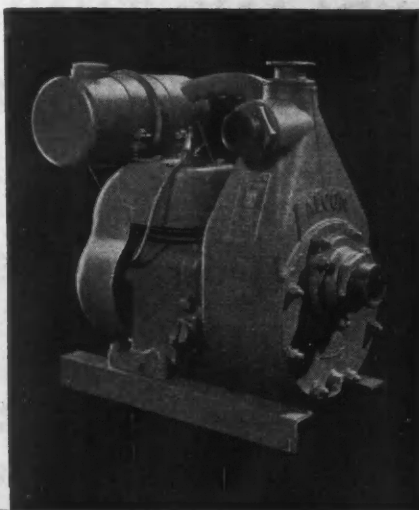
Alcon Mark III range... the self-priming pumps that move more water, fuel oil or heavy liquids per unit of capital cost than any others.

The range is now extended by the addition of the B.S.A. powered 1" and 1½" versions.

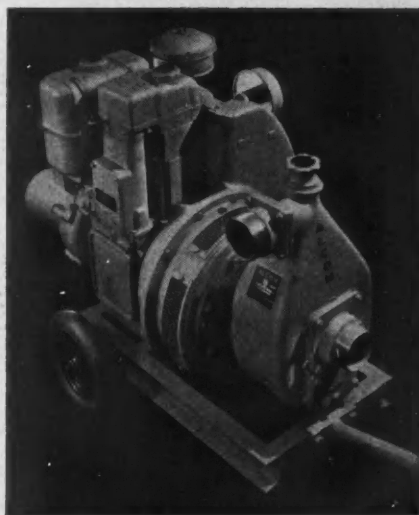
Alcon pumps are available with outputs from 500 to 75,000 gallons per hour; the smaller models are supplied with American Briggs & Stratton or Clinton engines, or with British Villiers, J.A.P. or the latest B.S.A. engines. All models are available as electric powered units. Larger sizes have diesel engines fitted as standard.

For further details, or for technical advice on proposed applications, write to:-

ARTHUR LYON & CO. (ENGINEERS) LTD.,
6 Carlos Place, Grosvenor Square, London, W.1.
HYDe Park 9141



The symbol of the Newage group is the hall-mark of first-class engineering



MIDLAND TUNNELLING CO., LTD., Mining & Civil Engineers

SHAFT & WELL SINKERS

Underground Excavation for

TUNNELS & SEWERS

Concrete linings · Cement injection

Boreholes, Test Pits, etc.

Demolition, etc.

Pneumatic Plant Hirers

MIDLAND TUNNELLING CO., LTD.,
20 Bentinck Road, Hyson Green, Nottingham
Telephone: Nottingham 75182/3

This desirable building sight

The original view from a new house is of the men and machines which played a part in its construction, and the Stothert & Pitt 5NT Mixer is a piece of equipment which features prominently in any such development. Built to British Standard Specification 1305, it is an ideal general purpose machine for builders and contractors. The drum has been designed to give maximum mixing efficiency and has a capacity of 7 cu. ft. for un-mixed batches and 5 cu. ft. for mixed batches. The 5NT, mixing 30 batches per hour, has an output per eight-hour day of 44.5 cu. yds. Patent automatic shaker gear is fitted for the loading skip.

The dragline scoop illustrated on this machine is available as an accessory. A winch with magnetic clutch driven from the gear ring on the mixer is push-button controlled by the scoop operator.



STOTHERT & PITT LTD · ENGINEERS · BATH · ENGLAND

London Office: 38 Victoria Street, S.W.1

Midlands Office: Gt. Western Bldgs., 6 Livery St., Birmingham 3

STEEL

from STOCK

24 HOUR

DELIVERY SERVICE



*Without extra charge within 400 sq. miles
round London and the fastest outside this area.*

T.C. JONES

AND COMPANY LIMITED

95, Wood Lane, London, W.12 Tel: SHEphers Bush 2020

Bute Street, Cardiff Tel: Cardiff 28786

SHEphers Bush
2020



8 out of 10

users choose

RAPIER

TRUCK MIXERS

AND AGITATORS

As more and more of Britain's busy sites switch to ready mixed concrete, it's Rapier truck mixers you'll see most of all. *Because 8 out of 10 users now choose Rapier.*

The reason is simple. Users everywhere have proved to their own full satisfaction that Rapier experience and know-how produce the rugged, high-output, low-overhead machines that exactly meet the needs of every mixing contractor.

Write for details.



RAPIER

WALKING DRAGLINES
EXCAVATORS
MOBILE CRANES
CONTRACTORS PLANT
WATER CONTROL
RAILWAY PLANT

- * High discharge and horizontal from 2½—7 cubic yards
- * Controlled mixing—smooth discharge without segregation
- * Built for a long life of hard work

RANSOMES AND RAPIER LIMITED, IPSWICH, ENGLAND
A Newton Chambers Company

just a man, his horse and his Winchester...



The Pioneer of the Old West was dependent on his horse and his Winchester. Though he may be surprised to hear it, today's up-to-the-minute contractor, too, relies on his Winchester. His Winchester is his Ramset Jobmaster. Yes, the Jobmaster was designed by the Winchester Division of the Olin Mathieson Chemical Corporation, with which Ramset, the pioneer of cartridge hammers, is closely associated. With the backing of such experience, it is not surprising that the Ramset Jobmaster is acknowledged as the premier tool of its kind on the market to-day—the only powder actuated fastening tool that is 100% Safe—100% Sure.

ONLY RAMSET OFFERS ALL THESE PRODUCT FEATURES AND SERVICES

- * Complete safety with Flite Chek
- * Lifetime guarantee on tools
- * 100% Warranty on all Fasteners
- * Same-day service and supply to site
- * Free technical advice and operator training scheme
- * Full range of fasteners and attachments to tackle every fastening job.

Ramset products are obtainable only from the Manufacturers or through their appointed dealers.

Ramset

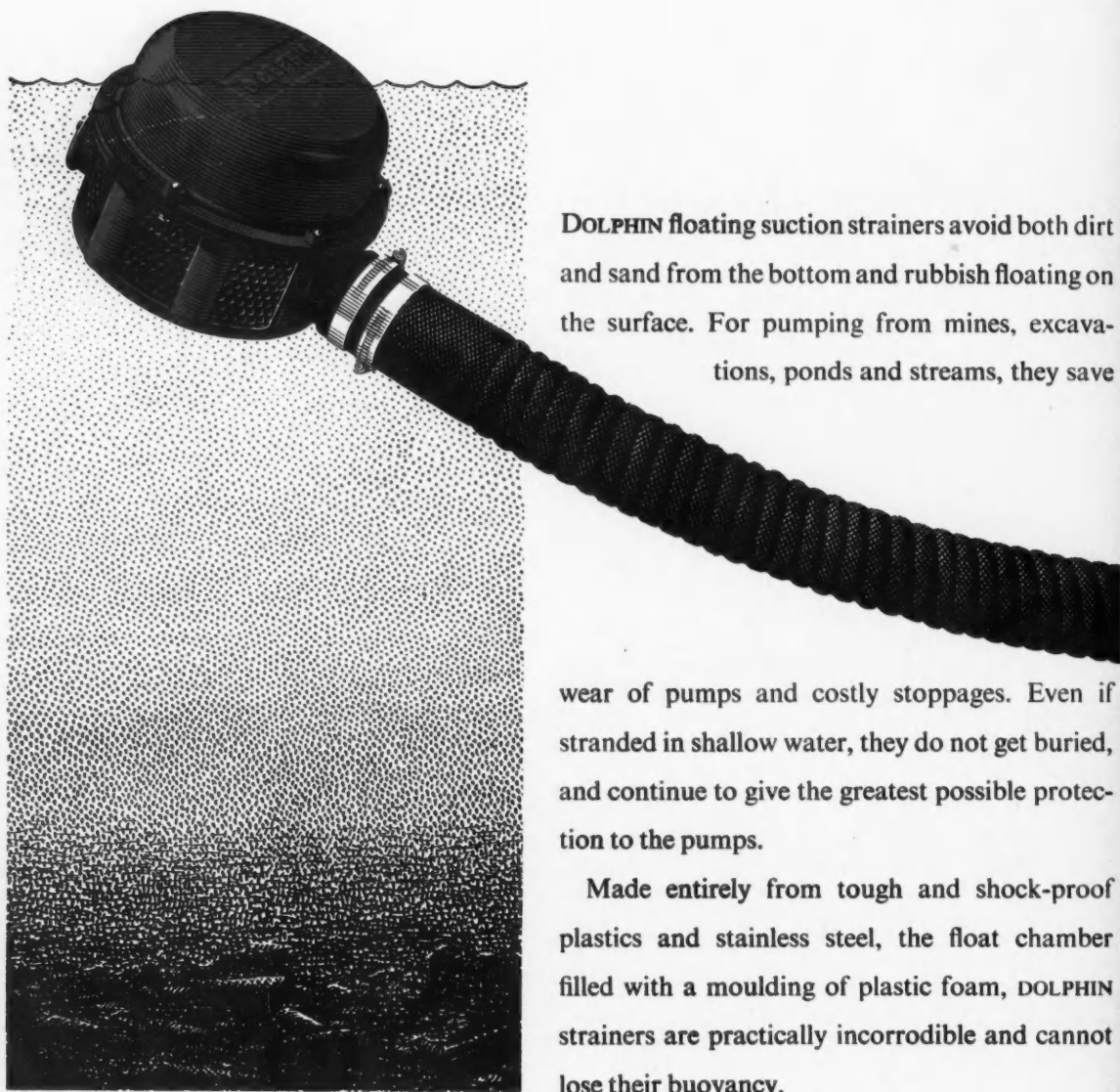
FASTENERS LIMITED

Write or phone

788a Finchley Road, NW11 SPEdwell 9411 or 8004



PUMP USERS SAVE MONEY



DOLPHIN floating suction strainers avoid both dirt and sand from the bottom and rubbish floating on the surface. For pumping from mines, excavations, ponds and streams, they save

wear of pumps and costly stoppages. Even if stranded in shallow water, they do not get buried, and continue to give the greatest possible protection to the pumps.

Made entirely from tough and shock-proof plastics and stainless steel, the float chamber filled with a moulding of plastic foam, DOLPHIN strainers are practically incorrodible and cannot lose their buoyancy.

Please write for booklet which gives full details of DOLPHIN Floating Strainers.

DOLPHIN FLOATING STRAINERS

Save their cost many times over

MEGATOR PUMPS & COMPRESSORS LTD 43 BERKELEY SQUARE · LONDON W1 · Tel: GROsvenor 6946



That's one way of looking at it!

Yet it only needs a simple operation to get things right — with lubrication problems for instance — what looks topsy turvy can so easily be righted by utilising the VIGZOL Industrial Lubrication Service. Let our specialists prepare a complete lubrication schedule of your plant, saving time, money and worry.

Get rid of 'too many grades' too much stock standing idle, taking up valuable space and deteriorating.

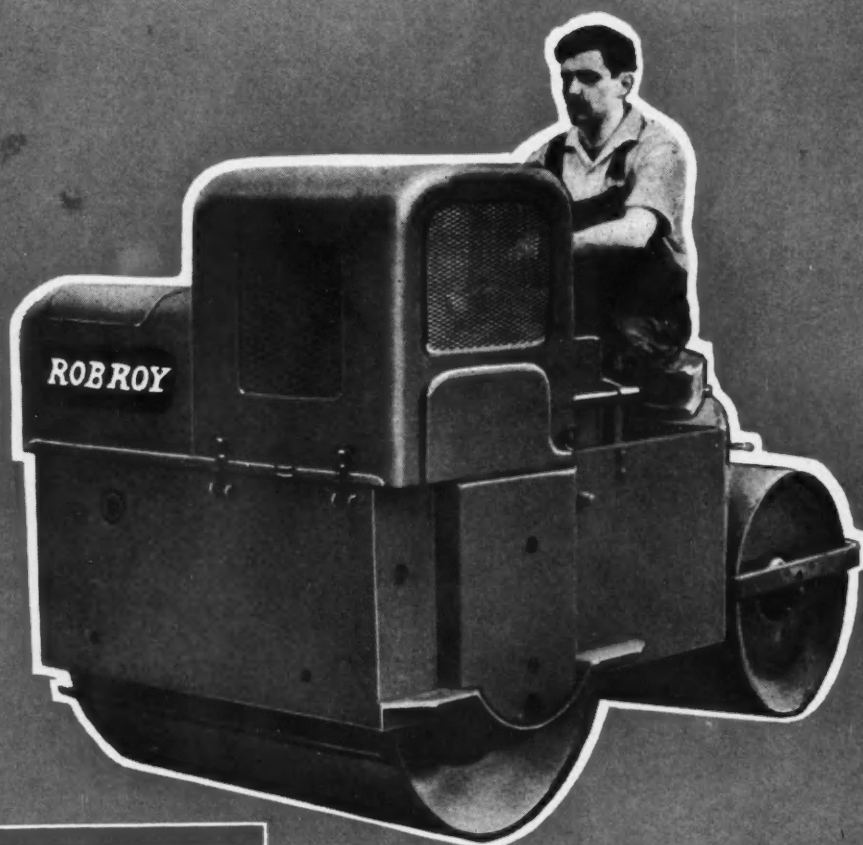
Contractor Plant Equipment depends for its efficiency and long life upon a properly planned lubricating routine using top quality lubricants.

How about ringing Greenwich 4361 for expert advice?



WE ARE OUT OF THE HORSE AGE ON THE HIGHWAYS OF BRITAIN

AND AHEAD IN **VIBRATING
ROLLER** CONSTRUCTION



MAIN DEPOTS FOR PARTS, SALES & SERVICE

	Phone:
GATESHEAD	Low Fell 76747
LEEDS	Leeds 32861
HASLEMERE	Haslemere 2294
SOUTH WALES	Coleford 2271
BIRMINGHAM	Sheldon 5291
CHESTERFIELD	Chesterfield 4152
MANCHESTER	Moss Side 3090
EDINBURGH	Waverley 4204
GLASGOW	Govan 2611
ABERDEEN	Aberdeen 43332
BELFAST	Belfast 46551

Also in the LONDON area

Low Operating Costs. One gallon of Diesel Fuel is consumed per 8 hour day compared with 5 gallons of petrol used by other Tandem Vibrating Rollers—a saving of up to £5 per week in fuel. **Great Manœuvrability** allows its use in very confined spaces. **Large Rolling Output.** 2,500 cubic yards of Lean Mix were compacted per 8 hour day on the LONDON/YORKSHIRE Motorway. **Ease of Handling** allows its transfer from one production site to another, as, and when required. **Simple Servicing and Long Life** are but a few of the outstanding advantages of the **ROB ROY VIBRATING ROLLER.**

Low purchase price **£1,097**

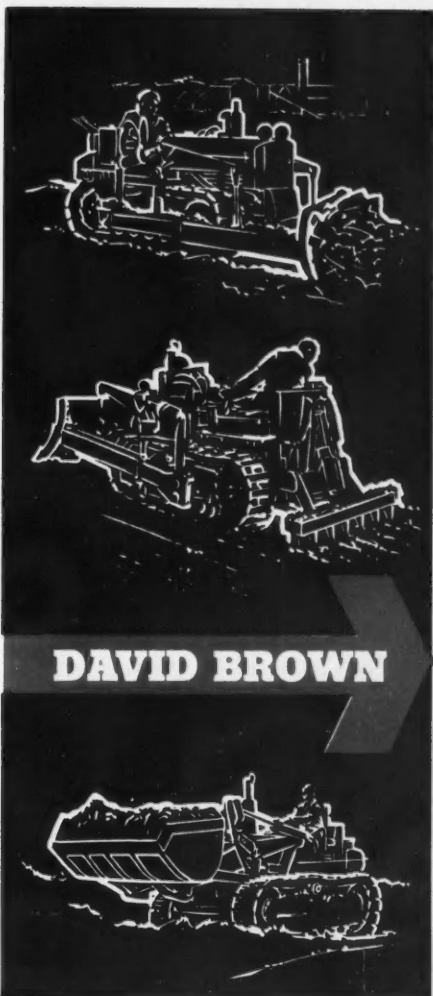
WRITE FOR
PARTICULARS



ROB ROY
CONTRACTORS' PLANT



JAMES F. LOW & CO., LTD.
Monifieth, Dundee, Scotland. Telephone Monifieth 1



VERSATILITY CUTS COSTS

and versatility is the key to the David Brown range of industrial tractors and attachments.

Shown here in a variety of applications, the sturdy 50 TD Diesel Crawler is designed to give maximum reliability under the toughest conditions. An example of this is easy to find: a landscape contractor in Hampshire, working a 70-hour week, recorded 1,278 hours in 4 months, using the 50 TD with a David Brown 4 yard hydraulic scraper (as illustrated). 45,000 cubic yards were moved on the 15-acre site—average scraper haul 80 yards: this in the winter of 1958/9, in conditions of light top soil, peat bottom sub-soil on chalk. The user states "for the size of the equipment, output could not have been bettered".

50TD



full details and specifications on request from

DAVID BROWN
CONSTRUCTION EQUIPMENT LIMITED

A subsidiary of the David Brown Corporation Limited
Meltham · Huddersfield · Yorkshire

Smoothing the way...



... with
VÖGELE

SOIL STABILIZATION

It is the aim in any soil stabilization job to finish the road with an even and firm surface in one single pass. This target is realized to the full with the Vögele High-Duty One-Pass Soil Stabilizer. The machine cuts the ground to a depth of $8\frac{1}{2}$ inches at a width of $6\frac{1}{2}$ feet, blending it thoroughly with the binding agents to a high comprehensive strength.

SPECIFICATION :

Overall Dimensions:

Length: 31' 2"
Width: 8' 4"
Height: 7' 4"
Weight: 13 tons

Drive:

Tractor: Daimler-Benz Diesel Engine
120 h.p.

Cutter and Mixing

Rotors: Oil Engines, infinitely variable from 0-100 r.p.m.

Compacting-Beam:

Farymann Type DI 2 Diesel

Travelling and Working

Speeds: 12 stages from 2-155 yds/min.

Working Width:

6' $8\frac{1}{8}$ "

Working Depth:

8 $\frac{1}{2}$ "

Height Regulation:

Cutter and Mixing

Rotors: Hydraulic

Screed and Compactor: Mechanical

Spray Device:

Water Pump (92-145 galls/min.) with overpressure and overflow device.

Direction sight for safe travelling



(EQUIPMENT) LIMITED

BURLINGTON WORKS, ABBEY ROAD, PARK ROYAL, N.W.10
Telephone: ELGar 6777 (4 lines)

ALLEN CRANES

—superb truck-mounts that can travel anywhere under their own power—are built with special heavy-duty chassis for long life. Finger-tip, air-controlled clutches; low overall height; short tail swing—these are some of the reasons operators prefer the ALLEN range.

The Model K. 52 illustrated is being used with a 45 ft. boom.



Send for full details from the manufacturers:

JOHN ALLEN & SONS

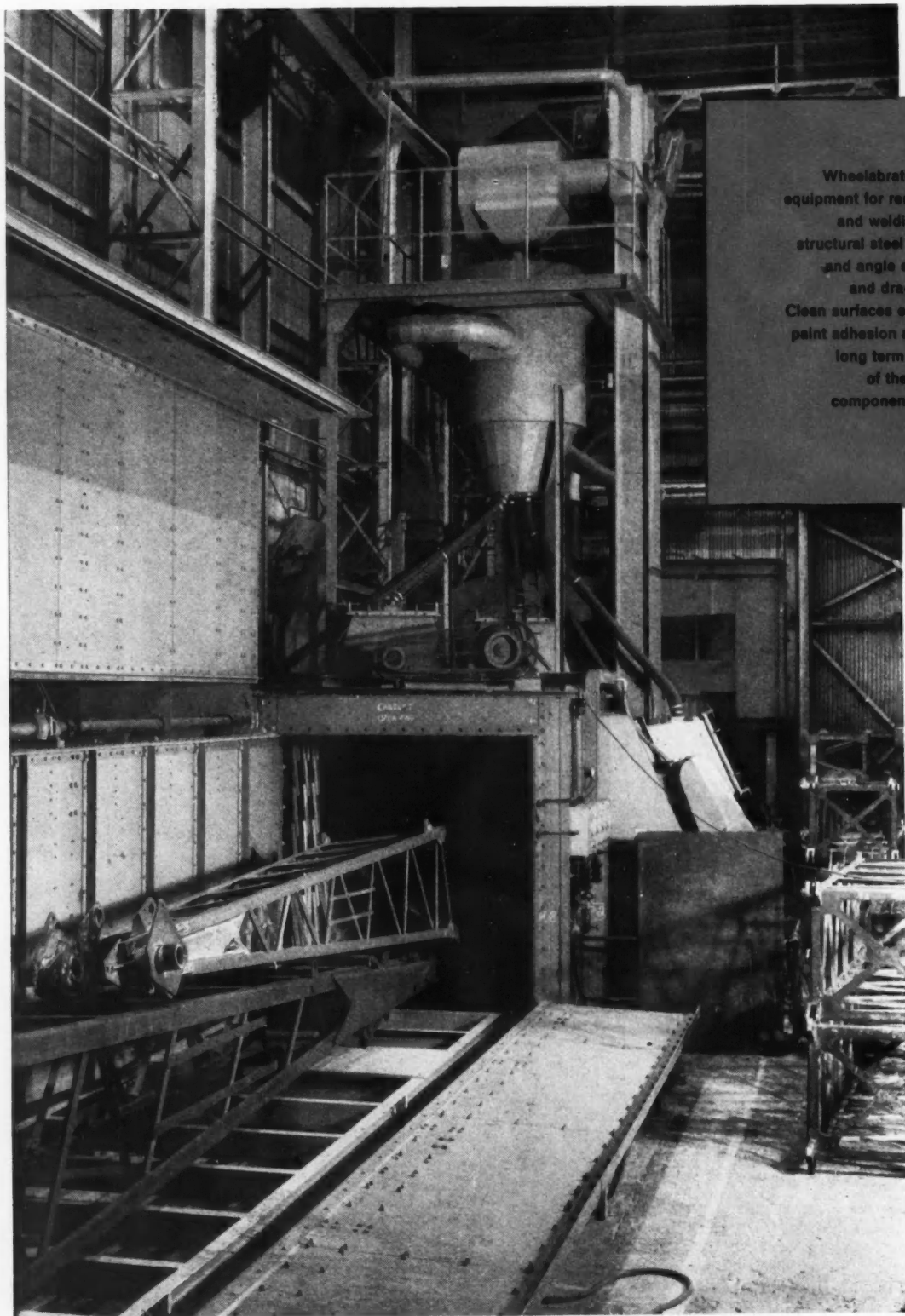
(OXFORD) LTD.

COWLEY, OXFORD

Tel: Oxford 77155/6/7



Quality OF ENGINEERING



Wheelabrator shot-blast equipment for removing scale and welding slag from structural steel plate booms and angle section cranes and dragline booms. Clean surfaces ensure primer paint adhesion and therefore long term preservation of these important components in service.

RBI

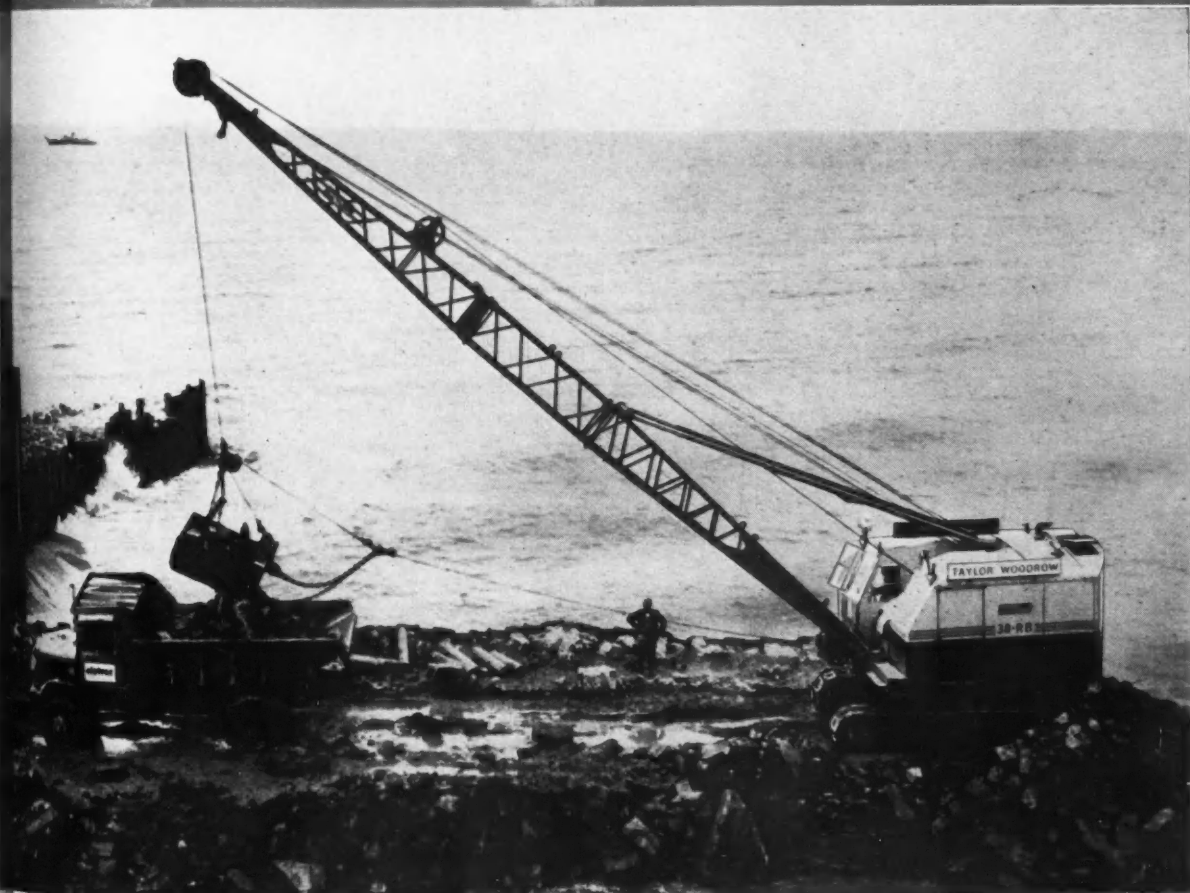
GIVES *dependability* IN SERVICE

It is processes like the one illustrated here that ensure the complete dependability of Ruston-Bucyrus excavators in field operation. As an example, the 38-RB long range dragline, shown in coast operation, must withstand the constant corrosive action of sea water and salt wind and spray that are guaranteed to play havoc with exposed metal surfaces which have not been properly prepared and treated.

**RUSTON-
BUCYRUS**

RUSTON-BUCYRUS LIMITED, EXCAVATOR SPECIALISTS, LINCOLN

Sales and Service Depots at Warrington and Teunisse



KINGSTON PLANT HIRE

FELTHAM 4084,



FLEET OWNERS

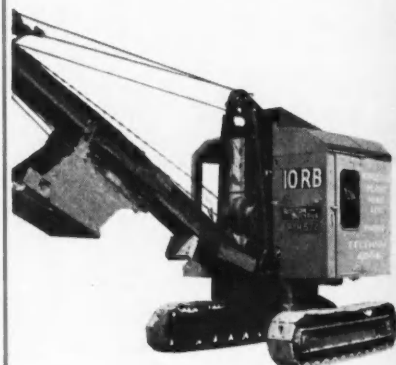


**TRAXCAVATORS —
INCLUDING
DROTT
SKID SHOVEL
WITH THE POPULAR
4 in 1 BUCKET**

— INCLUDING —

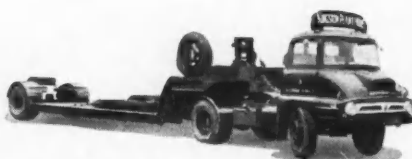
**EXCAVATORS
TRAXCAVATORS
BULLDOZERS
SCRAPERS
MOBILE COMPRESSORS
ROAD ROLLERS
VIBRATING ROLLERS
DUMPERS
CONCRETE MIXERS
PUMPS
CRANES
SHOVELS**

FLEET OWNERS



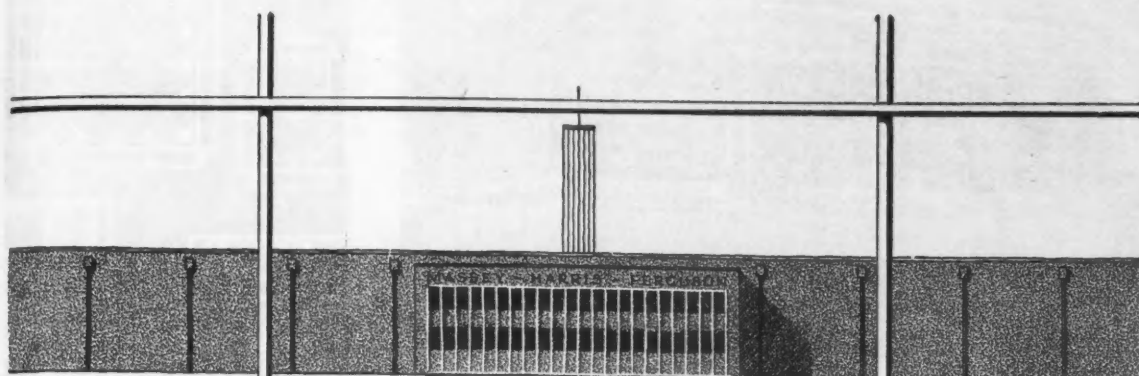
**EXCAVATORS —
ALL EQUIPMENTS
ALL SIZES
INCLUDING
RUSTON 19RB & 10RB
SMITH '21' & SUPER 10**

OWN LOW LOADERS



TRANSPORT TO SITE

KINGSTON PLANT HIRE LTD. • Works & Offices: TWICKENHAM RD. • HANWORTH • MIDDLESEX



Maxweld reinforces it



The reinforcement fabric used in the Massey-Harris Ferguson factory at Stretford was supplied by Richard Hill. Do you need reinforcements? Then call up the Maxweld man! He can give you all the facts on the type and quantity of fabric you'll need plus a rough idea of the cost. And he's backed by the

Richard Hill Design Service

who can then draw up more detailed plans and estimates. You can get him at Middlesbrough (2206), London (Mayfair 3538), Birmingham (Mid. 5625), Manchester (Central 1652), Leeds (2-7540), Bristol (24977), Glasgow (Central 2179), Nottingham (Bulwell 27-8383), Bournemouth (Westbourne 63491), Cardiff (46552), Belfast (29126).

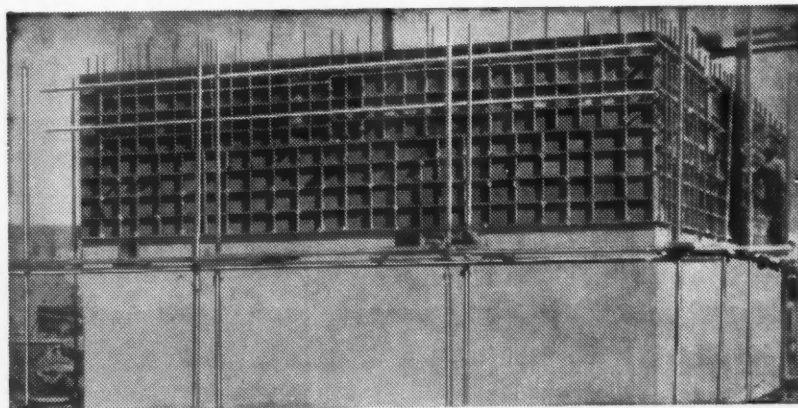
Maxweld fabric

is manufactured by **RICHARD HILL LIMITED** (Established 1868)

Newport Wire and Rolling Mills, Middlesbrough, Yorkshire. Tel : Middlesbrough 2206

A MEMBER OF THE FIRTH CLEVELAND GROUP



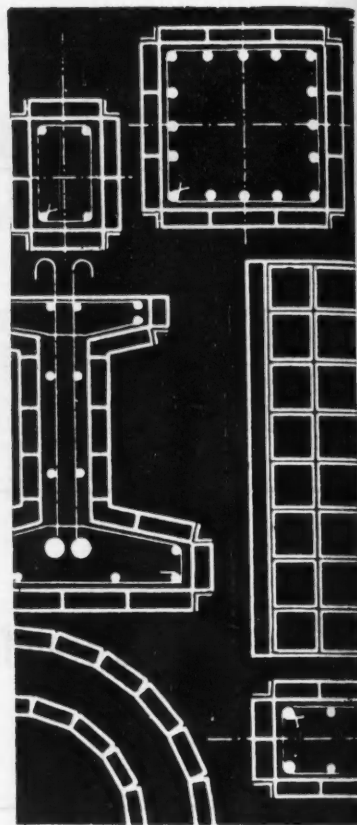


Twenty-five years of solid experience lies behind HOLCAST formwork. The units are of standardised steel panels with minimum self-aligning fittings and cover all requirements—WALLS—COLUMNS—BEAMS—SLAB. HOLCAST is on Sale or for Hire and eliminates timber as a shuttering medium—it does your job EFFICIENTLY—QUICKLY—AT LOW COST.

Write to B. B. & E. A. today for Leaflet (C.J.I.) and details of the unrivalled HOLCAST Technical Service.

HOLCAST

STRUCTURAL FORMWORK



BB&EA

BRITISH BUILDING & ENGINEERING APPLIANCES LTD., Sandy, Beds. Tel: 291/2.

Branches: London, W.9. Tel: Park 3961/2. Wednesbury, Staffs. Tel: 1035/6

BMJ

FOR IMMEDIATE HIRE

CRAWLER CRANES UP TO 50 TON CAPACITY

802 & 1201 LIMAS

43 RB's

38 RB's

33 RB's

22 RB's

19 RB's

10 RB's

Lorry mounted cranes

D4, D8 TRACTORS

EUCLID REAR DUMPS

GALION GRADERS

DERRICKS, 5, 7, 10, 20 ton

PILING EQUIPMENT

CRUSHING PLANT

NEALS CRANES 4/6 ton

933 & 955 SIDE TIP

977 & DROTT SHOVELS

CHASESIDE & MICHIGANS

DINKUM DIGGERS

3yd. DUMPERS

16/60 TRENCHERS

COMPRESSORS

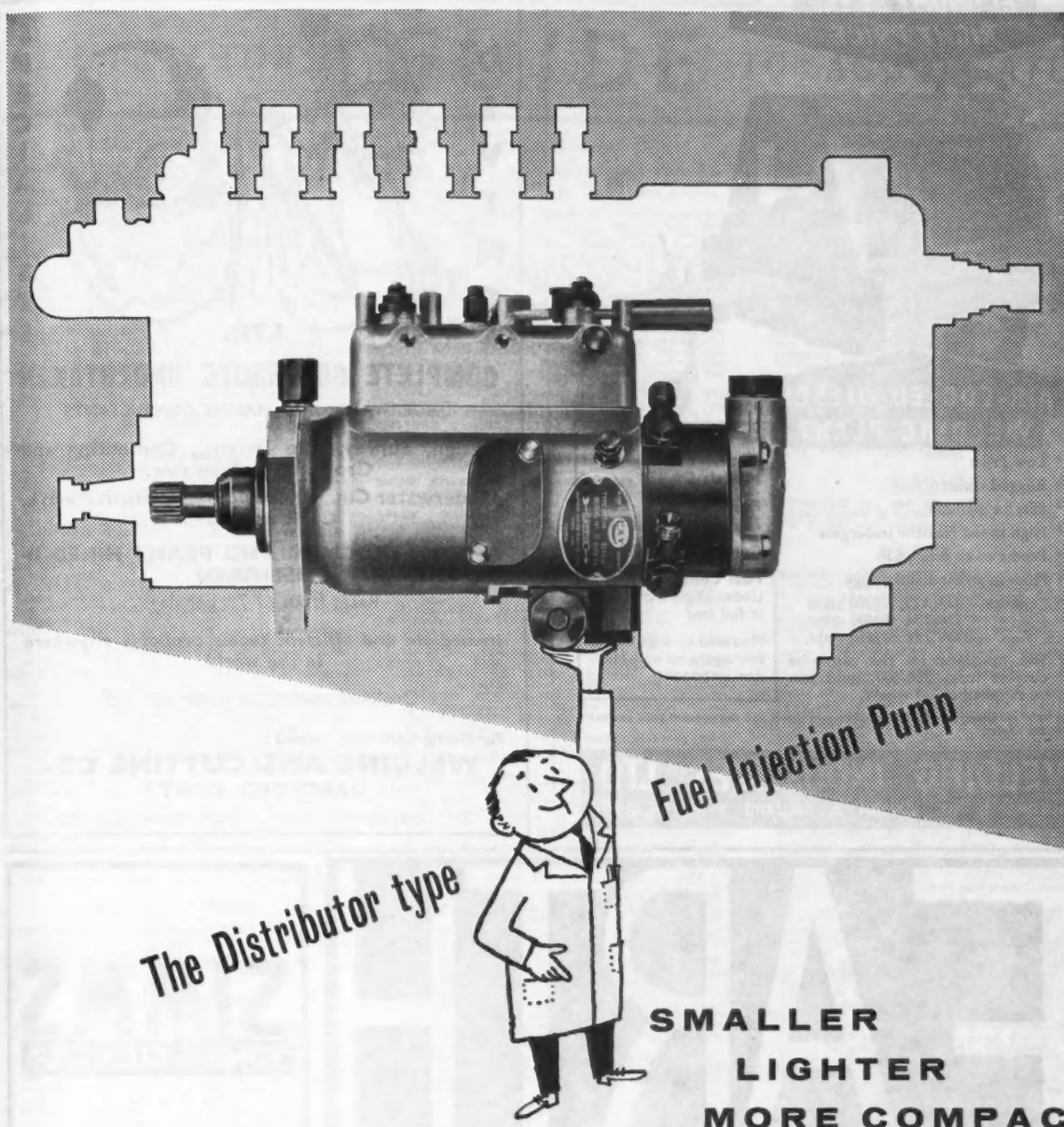
Also all other Civil Engineering Plant available

ROADS AND RUNWAYS

(PLANT HIRE) LIMITED

26 VICTORIA ST. LONDON, S.W.1

TEL: **ABBAY 4905**



The Distributor type

Fuel Injection Pump

**SMALLER
LIGHTER
MORE COMPACT**

The 'DPA' Fuel Injection Pump is much smaller than the comparable in-line pump for similar duty, and is only a fraction of the weight. It may be mounted horizontally or vertically as desired. It forms a compact unit which fits snugly alongside the engine, with a simple direct drive, and thus permits considerable simplification of engine design with corresponding saving of cost. The 'DPA' pump is suitable for high speed diesels of up to approximately 1.5 litres per cylinder.



The World's Largest Manufacturers of

FUEL INJECTION EQUIPMENT

C.A.V. LIMITED, ACTON, LONDON, W.3.

**ECONOMY at the
RIGHT PRICE**



**AIR-COOLED DIESEL
WELDING PLANT**

- * Low Price
- * Rugged construction
- * Easy to maintain
- * High speed Flexitor undergear
- * Produced to B.S.S. 638
- * Modern streamlined design
- * Ex-stock — DA.123 30/300 amps.
DA.134 40/400 amps.
DW.244 50/450 amps.
- * The remainder of the plants of
outputs from 300-600 amps can
be supplied in 2-3 weeks.

(Illustrated)

Model: DA.134

Powered by: Lister
25½ h.p. air cooled diesel

Capacity: 50/400 amps.

Fuel Consumption:
Under 1½ galls. per hour
at full load

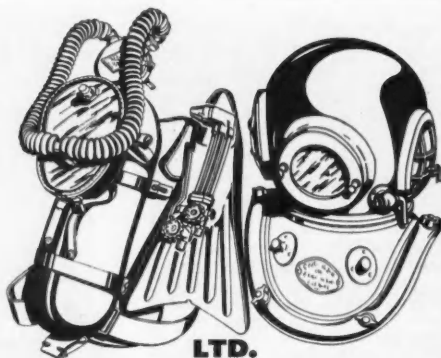
Mounted on high speed
towing trailer with Flex-
itor suspension

Write NOW for illustrated leaflet, specification sheets and the name of your nearest
authorised dealer.

WELDING INDUSTRIES LTD

Blackswarth Rd., Bristol 5, England Phone: 5-8408

**D
I
V
I
N
G**



LTD.

**S
P
E
C
I
A
L
I
S
T
S**

COMPLETE CONTRACTS UNDERTAKEN

UNDERWATER AND MARINE CONSULTANTS

Design, Survey, Pile Driving, Cementing and
Grouting underwater.

Underwater Cutting, Welding, Explosive work,
Craft available.

**DIVERS, FROGMEN AND PLANT HIRED IF
PREFERRED**

Rates from £7 7s. per day.

Immediate and efficient teams available anywhere
in the world.

Qualified marine surveyor on staff

For Diving Contracts, consult:

WELDING AND CUTTING CO.
DARTFORD, KENT

Tel: (day) Dartford 24139 (night) Farningham 2452

EARTH

**SIMMS
SONS & COOKE LTD**

BY CONTRACT

YARDAGE BASIS.
PLANT HIRE WITH OPERATORS

SUB-CONTRACT

LIMAS 1201 DRAGLINE WITH FACE SHOVEL EQUIPMENT
TD24 20 & 18 BULLDOZERS

D TYPE TOURNAPULLS-54, 22 & 19RB EXCAVATORS WITH FACE SHOVEL EQUIPMENT

D8 TRACTORS & SCRAPERS & SUITABLE BULLDOZER EQUIPMENT

W J. SIMMS, SONS & COOKE LTD., EXCAVATION DEPT., HAYDN ROAD, NOTTINGHAM
CABLES CONTRACTS. NOTTINGHAM 66264 (Ten Lines)

MOVING

CONTRACTORS' GUIDE TO AGGREGATES

BEDFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRIS SAND AGGREGATES, LTD., Northampton Rd. Quarries, Rushden (2354/5). (See Northants.)
GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hunts. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hunts. and South Cambs.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) All grades of washed and graded aggregates in Bedfordshire and Northamptonshire. Regular deliveries anywhere.
WINFIELD, HENRY, LTD., P/O Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Pits at: Leighton Buzzard, Bedford. Building sands.

BERKSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464.) For washed and graded aggregates to B.S.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BULL BROS., S. AND LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
COFF, HARRY A., LTD., Buckhurst Hill, Cheshire, Ascot, Berks. (Tel.: Ascot 1026/7.) Sand, all grades of washed aggregates, hardcore, clinker, ashes and hoggins.
CURTIS, J. AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 4108/12/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone. Cotswold building and walling stone.
JANES AND CO., LTD., 2C Buckingham Avenue, Slough, Sand aggregates, hardcore, building and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.
POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)
WRAYBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading. (Tel.: Theale 373.)

BRECKNOCKSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

BUCKINGHAMSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464.) For washed and graded aggregates to B.S.S.
ASPHALTE CARPETS, LTD., 38 Buckingham Palace Road, London, S.W.1. (Tel.: Tate Gallery 4857 or Gerrards Cross 4455.) and at Gerrards Cross.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BICESTER STONE CO., LTD., Stratton Audley, Bicester, Oxon. (Tel.: Stratton Audley 238.) Manufacturers and suppliers of all grades of limestone, tarmacadam, dry, pitching stone, hardcore, etc.
COFF, HARRY A., LTD., Buckhurst Hill, Cheshire, Ascot, Berks. (Tel.: 1026/7.) (See Berkshire.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DRINKWATER, W. W. (WILLESDEN), LTD., Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.)
GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, H. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone. Cotswold building and walling stone.
HALL AND CO., LTD., Brentford, Middlesex. (Tel.: Isleworth 4455.) and Coronation Road, High Wycombe. (Tel.: 4360/1) and at Gerrards Cross.
JANES AND CO., LTD., 2C Buckingham Avenue, Slough, Sand aggregates, hardcore, building and bulk excavation. (Tel.: Slough 20361/2/3.)
LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) 55A Porchester Terrace, North Paddington, W.2.
MARLOW SAND AND GRAVEL CO., LTD., Westhorpe Pit, Little Marlow, Bucks. (Tel.: Marlow 379.)
STUART MACLE, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CAMBRIDGESHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

CAMBRIDGESHIRE

DARBY'S SAND AND GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades of washed sand and gravel, ready-mixed concrete. Pits: Mepal and Chippenham, Cambs.
DICKERSON, M., LTD., Teverham Corner, Newmarket Road, Cambridge. All grades washed sand and gravel, reject stone, hoggins, breeze, clinker, "Terlite" crushed granite, foamed slag, concrete and brick hardcore, ready-mixed concrete—all grades. (Tel.: Cambridge 56973/4.)
FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) Washed sand and gravel.
MACLAREN BROS. (KENNETT), LTD., gravel, tarred and bituminous, gravel asphalt, washed sand and all to B.S. Specifications. Delivered to any place. Station Rd., Kennet, Cambs. (Tel.: Kenford 338/4.)
NORTH ROAD GRAVEL WORKS, LTD., The Brook, Sutton, Ely. (Tel.: Sutton 391/3.) All grades washed sand and gravel, ready-mixed concrete and spun-concrete pipes. Pit: Wimblington.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

CARDIGANSHIRE

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

CHESHIRE

BUCKTON QUARRY, broken stone, all grades. (Tel.: Mossley 123.) Or write Main Road, Oldham.
CASTLETON SAND AND GRAVEL QUARRIES, LTD., Pennant End Quarry, Whaley Bridge. (Tel.: Whaley Bridge 138.) Washed sand and gravel.
CAWOOD, WHARTON AND CO., LTD., Pitlyl Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tarred macadam, all grades.
CHESHIRE AND NORTH WALES TARRED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Hard, broken limestone, dry and coated, to B.S. Inquiries to registered office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)
CROXDEN GRAVEL, LTD., Cheshire, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 376/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD., (See Shropshire.)
HARPER AND THOMAS, LTD., Baynton Hill Quarry, Shrewsbury. (See Shropshire for details.)
HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester. (Tel.: Deansgate 5485.) Quarries at Cheshire, Deansgate. (Tel.: Tean 241.) And at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)
HULLAND GRAVEL CO., LTD., Cheshire, Stoke-on-Trent. (Tel.: Cheshire 232/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester. (Tel.: Blackfriars 2277/8.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.) All sizes and gradings of crushed granite aggregate from our Collingwood Dock (Liverpool) ex stock. Any quantity per day; immediate delivery.
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Shropshire. (Tel.: Hales 15/2/3.) (See Staffordshire for details.)
TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pine Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concrete sand. Plant capacity: 2,000 tons per day.
WILLIAMS, W., Bishop Street Sand Quarry, Turncroft Lane, Stockport. (Tel.: Stockport 7096.) Building and concrete sand. Bulk sand and gravel filling a speciality.

CORNWALL

PENTEWAN DOCK AND CONCRETE CO., LTD., Pentewan Works, near St. Austell. (Tel.: Mevagissey 3335/6.) Gwithian Works, near Hayle. Pure silica sand and gravel for concrete, building and asphalt and asphalt sands, elvan and granite aggregates, all sizes.

CUMBERLAND

BROOMBYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland.
ESK MANUFACTURING CO., LTD., Dalton Road, Carlisle, Cumberland. (Tel.: Carlisle 2-4941.) All grades washed, crushed gravel and concrete sand to B.S. Specification. Precast concrete products and partition blocks. Sand lime coloured facing and common bricks. Ex works or delivered.

DENBIGHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel.: 961), Salop.

DERBYSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S. 5, all sizes, coated limestone to B.S. 802 and 1921 and wet mix; large output; reliable deliveries.
BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place, Chatteris, West Bars, Chesterfield. (Tel.: Chesterfield 7130.) Red shale, black ashes, graded clinker, filter media, stone slag, sand, gravel and hoggins. Bulk quantity supplies.
GRAVEL HILL SAND QUARRIES, LTD., (Tel.: Ashby (Leics.) 79.) (See Leicestershire for details.)
HILTON GRAVEL, LTD., Hilton, Derby. (Tel.: Etwall 422.) Also at Mercat Burton (Tel.: Burton 316.) And at Willington. (Tel.: Repton 3215.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Loutham 3171—15 lines.) (For details, see Nottinghamshire.)
HULLAND GRAVEL CO., LTD., Cheshire, Stoke-on-Trent. (Tel.: Cheshire 232/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester. (Tel.: Blackfriars 2277/8.)
SALISBURY AND WOOD, LTD., Matlock (Tel.: Etwall 27/3.) Limestone and granite, dry or coated gravel and sand; kerbs, slabs, blocks, poats, reconstructed and natural stone; lime and ground limestone. Lightweight aggregates, ashes, red shale.

DEVONSHIRE

PLYMPTON TRADING CO., LTD., Marsh Mills, Plympton, Plymouth. (Tel.: Plympton 2361.) Washed and graded sands for all purposes. Special sands to B.S. Precast concrete.

DORSET

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) (See Hampshire.)
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) Tarred and bituminous macadam, four-course materials, limestone for all purposes and to all gradings. Portland stone aggregates and Portland capstone aggregates for reconstructed stone. By road and sea.
GILSON, S. C. AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., 8 Commercial Road, Parkstone (Tel.: 3379).
MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.

DURHAM

BRAITHWAITE, A. AND CO., LTD., Knarsborough, Yorks. Quarry at Catterick. (Tel.: Old Catter. 157.) (For details see Yorkshire.)

ESSEX

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Colchester, Essex. (Tel.: Wivenhoe 341.) Pits at Alresford Creek, Brightlingsea, Stoke-by-Nayland, Bures and Holland. All grades of washed shingle, concrete sand and bedding sand. Road sand, water transport.
BAKER, R. AND E., LTD., 73 High Road, Rayleigh, Essex. (Tel.: Rayleigh 1031/2.) Pits at Great Totham, Heybridge and West Tilbury. All grades of washed material supplied and delivered; also hardcore, ashes and bricks.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BENT-MARSHALL (LEYTON), LTD., 665-667 High Road, Leyton, E.10. (Tel.: Leytonstone 4047/8.) Sand, ballast, brick and concrete hardcore delivered all areas.
DANGERFIELD, F. J. & CO., LTD., 261A Finchley Rd., London, N.W.3. (Tel.: HAMstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)
FERRIS PITS, LTD., The Limes Garage, Fencible Road, Barkingside, Essex. (Tel.: Hainault 5271/2-3001/2.) Pits at Orsett, near Stan-ord-le-Hope, and Upminster. All grades of washed aggregates, plastering and building sands supplied and delivered, also hardcore and ashes.
HALL AND CO., LTD., Manor Road, Romford. (Tel.: Romford 42321.) Pits at Aveley, Boreham and Linford, near Grays. Gravel aggregates, concrete, plastering and building sand.
HUNNABLE, F. A. AND SON, LTD., Rayne Road, Braintree, Essex. (Tel.: Braintree 151 and 1351.) Graded washed stone, 1/4 in. to rejects; washed concrete sand and washed sort building sand. Classified sand for asphalt. Pits at Braintree, Bocking, Beasley End, Heddingham and Alphetonstone.
LEIGH BUILDING SUPPLY CO., LTD., Head Office: 956 London Road, Romford-on-Sea, Essex. (Tel.: 78264—5 lines.) All grades washed materials, building sand, hardcore, ashes, bricks, granite.
PETERS AND BARNARD, LTD., 309 South Street, Romford. (Tel.: Romford 44141—7 lines.) Washed and crushed gravel, all sizes; sand. Pits at Asheldham, Chigwell, St. James, Dagenham, Great Waltham, North Ockendon, Rowley, West Thurrock.
READ, P. T., LTD., Foxlands Gravel Pit, Foxlands Crescent, Dagenham. (Tel.: Hainault 6111.) All sands, ballast and shingles supplied and delivered, also ready-mixed concrete.
READ, P. T., LTD., Fairlop Airfield, Forest Road, Ilford. (Tel.: Hainault 6111/2/3.) High-grade sand, ballast and shingles supplied and delivered; also ready-mixed concrete.
ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)
STANWAY CONTRACTS, LTD., Upper Edwards Hall, Eastwood, Southend-on-Sea. (Tel.: Eastwood 55161.) Sand and gravel pits at Rochford and Woodham. Walter. Graded aggregates supplied or delivered.
WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Washed and graded aggregates. Local Office and pits: Tillingham 287.
WIVENHOE SAND, STONE AND GRAVEL CO., LTD., Wivenhoe, near Colchester, Essex. (Tel.: Wivenhoe 231.) High-quality washed aggregates of all grades.

GLOUCESTERSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464.) For washed and graded aggregates to B.S.S.
BENGRY AND SONS, LTD., Longmow, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
COKE, R. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel.: Cheltenham 4717/4874.) Sand, graded gravel aggregates, hardcore, limestone, chippings, tarred and bituminous limestone, concrete blocks, ashby poats, etc. etc.
CROMHALL QUARRIES, LTD., Cromhall, Wotton-under-Edge, Glos. (Tel.: Failand 346/7.) Concrete aggregates, pre-graded in large quantities. Tarmacadam, tarpaving, bituminous macadam and cold asphalt to B.S.S. for hand or machine laying.
GRIFFITHS, A. AND SONS, Churchdown, Gloucester. (Tel.: Churchdown 2115 and 2216.) Pit, quarry and dredger owners. All grades and types aggregate materials.
HALL AND CO., LTD., Longmow House, Ashton Vale Road, Bristol, 3. (Tel.: 63001.) Gravel aggregates, concrete, plastering and building sand.
POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)
TAYMAC, LTD., Wootton Bassett, Swindon. (Tel.: Wootton Bassett 391—5 lines.) (See Wiltshire.)

Rates for insertion in this GUIDE will be forwarded on application

CONTRACTORS' GUIDE TO AGGREGATES

GLOUCESTERSHIRE

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel.: Coleford 3158/9.) Tinned and bituminous limestone macadams, asphalt, concrete aggregates, dolomitic media, engineering, facing and common bricks for all purposes. Delivery road or rail.

HAMPSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregate to B.S.S.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel.: 2264.) Concreting aggregates (reconstituted pit-mixed, weighbatched to meet any specification); also ballast, hoggins, path gravel and sand from own pits at Fawley, Lockerley, Ringwood, Romsey, Sway and Totton.

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Avon 243.)

HALL AND CO., LTD., Baltic Wharf, Marine Parade, Southampton. (Tel.: Southampton 21234.) and at Portsmouth. Pits at Ringwood, Highbridge and Totton. Gravel aggregate, concreting, plastering and building sand.

HASKINS, G. AND SONS, Queen Street, Emsworth. For washed sands and graded aggregates, path and road gravels, hoggins, clinker, ashes. (Tel.: Emsworth 2271.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.

NEW MILTON SAND AND BALLAST CO., Lymington Road, New Milton, Hants. (Tel.: 37 and 566.) Guaranteed uncrushed, washed, screened and graded concrete aggregates. All sizes. Washed sharp and fine sands.

PRIVETT, W. AND SONS, LTD., Drayton Lane, Portsmouth. (Tel.: Cosham 70059.) Concrete aggregates, building sand, hoggins, ashes, washed and graded filter media, etc.

WRAYSURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

WESSEX SAND AND GRAVEL CO., 126 Hillside Ave., Southampton. (Tel.: 56616.) Pits at Romsey and Fair Oak. Concrete aggregates, hoggins, building sand, etc.

HEREFORDSHIRE

BENGRIE AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 30114.) Suppliers of all grades of crushed concrete aggregates, road metallings, pitching stone, hardcore and coated macadam.

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) All grades of tinned and bituminous macadam, roadstone, chippings and concrete aggregates, etc.

OLD RADNOR TRADING CO., LTD., Kington. (Tel.: 11.) Granite and limestone aggregates, coated macadam, concrete products.

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

WHITECLIFF QUARRIES AND BRICKWORKS, LTD., Coleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

HERTFORDSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOODS SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Broxbourne pit. (Tel.: Hoddeston 1450.) Processors and distributors of all grades of washed aggregates.

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Hertford and Enfield.

HALL AND CO., LTD., Railway Yard, Orchard Road, Stevenage. (Tel.: 775.) and at Hatfield. Gravel aggregates, concreting, plastering and building sand.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hants. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

WINFIELD, HENRY, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamsted 1208/9.) Pits at: Hemel Hempstead, Watford, West Hyde, Rickmansworth. Concrete aggregates, hoggins, building sand.

HUNTINGDONSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)

FERRERSAND AGGREGATES, LTD., Northampton Road Quarries, Rushden (2334/5.) (See Northants.)

GRAVEL PRODUCTS (HUNTS), LTD., St. Neots, Hants. (Tel.: St. Neots 123.) Pits at Little Paxton, near St. Neots. (Tel.: St. Neots 308.) Deliveries in Beds., Hants. and South Cambs.

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hants. (Tel.: St. Ives 2441/2/3/4.) Producers of all grades of washed sand and gravel. Ready mixed concrete. Precast concrete of every description.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) (See Bedfordshire.)

KENT

BRASTED SAND PITS, Brasted, Kent. (Tel.: 586.) London office: 10A Ellery Street, S.E.15. (Tel.: New Cross 357.) Soft sand and plastering sands, lime and sand-mix dry, hardcore, S.H. bricks, ashes, etc.

BROWN BROS. (SITTINGBOURNE), LTD., Chalkwell Road, Sittingbourne, Kent. (Tel.: Sittingbourne 330.) Sand, ballast, shingle, hardcore, clinker, breeze blocks, etc.

CLUBB, J., LTD., Dartford, Kent. (Tel.: Dartford 25431.) Pits in North Kent, Medway area and Sevenoaks district. All washed and crushed gravel aggregates, concreting and building sand.

KENT

DIAMOND TREAD CO. (1938), LTD., Ditton Court Quarry, Larkhall, near Maidstone. (Tel.: West Malling 3444.) Quarry owners; tarmacadam, bituminous macadam and dry road stone manufacturers and suppliers. Head Office: 21-22 Old Bailey, London, E.C.4. (Tel.: City 7001—10 lines.)

DIAMOND TREAD CO. (CHART), LTD., Swan Lane Quarries, Little Chart, Ashford, Kent. Quarry owners; tarmacadam, bituminous macadam and dry roadstone suppliers. All inquiries to Area Office: Ditton Court Quarry, Larkhall, near Maidstone, Kent. (Tel.: W. Malling 3444.)

HALL AND CO., LTD., Canning Street, Maidstone. (Tel.: Maidstone 51051.) and at Folkestone and Hayes. Pits at Lunsford, near Larkhall. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. AND CO., LTD., Station Road, Paddock Wood, Kent. (Tel. 385.) (See Sussex.)

TILBURY CONTRACTING AND DREDGING CO., LTD., Postley, Maidstone. (Tel.: Maidstone 55401/2/3.) Suppliers tarred bituminous and dry Kentish ragstone, sea walling, asphalt fillers, Scotch granite and kerbing.

LANCASHIRE

BROOMEYS, LTD., Sandside, Milnthorpe (Tel. 3251/2), Westmorland. (See Westmorland.)

BUCKTON QUARRY, Broken stone, all grades. (Tel.: Buxley 125.) (See Lancashire.)

CASTLETON SAND AND GRAVEL QUARRIES, LTD., Trows Lane, Castleton, nr. Rochdale. (Tel.: Castleton 57100.) See Quarries, Bacup. (Tel.: Bacup 287.) Washed pit sand, crushed washed stone aggregates; pitching stone.

CROFT GRANITE BRICK AND CONCRETE CO., LTD., West Bank, Widnes. (Tel.: 2556.) Kubitized granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

CROXDEN GRAVEL, LTD., Cheside, Stoke-on-Trent, Staffs. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.

DUNNING AND SON, LTD. (See Shropshire.)

HARTLEY, JOHN W., LTD., Lundsfield Quarry, Carnforth, Lancs. (Tel.: Carnforth 100.) Large producer of highest quality washed sands, clean washed natural pebble and crushed gravel aggregates for all construction purposes.

HILTON GRAVEL, LTD., Rice Street, Liverpool Road, Manchester, 3. (Tel.: Deansgate 5455 and 5456.) Quarries at Cheside, Staffs. (Tel.: Tean 241.) and at Longton, Stoke-on-Trent. (Tel.: Longton 32196.)

HULLAND GRAVEL CO., LTD., Cheside, Stoke-on-Trent. (Tel.: Cheside 2323/2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

PENMAENMAWR AND WELSH GRANITE CO., LTD., all sizes and gradings of crushed granite aggregate. Immediate delivery ex stock.

Liverpool and Preston Depots: Office: 7 Picton Road, Liverpool, 15. (Tel.: Sefton Park 7261.)

Manchester Depot: Office: Cornbrook Road, Manchester, 15. (Tel.: Trafford Park 3830.)

ROUND-O QUARRIES, LTD., Helsby Street, Warrington. (Tel. 35451—4 lines.) Building and concrete sand and shale.

TERN HILL SAND AND GRAVEL CO., LTD., Alimington Quarries, near Market Drayton, Staffs. (Tel.: Hales 2612/3.) (See Staffs. for details.)

TRENTHAM GRAVEL CO., LTD., Lordley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice-washed sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) Local Office and pits: Chorley 3923.

WITHERS LIMESTONE, LTD., Black Lane Quarry, Carnforth, Lancs. (Tel.: Carnforth 327.) Graded limestone aggregate to B.S.S., all sizes. Immediate delivery ex stock.

X.L. GRANITE (INGLETON), LTD., Head Offices: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works: Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

LEICESTERSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) Best Leicestershire grey granite, dry and coated gradings to any specification, cold asphalt and met mix. Prompt rail/road delivery.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregate, building and concrete sand to B.S.S., scientifically balanced ballast.

CLIFFE HILL GRANITE CO., LTD., Markfield, near Leicester. (Tel.: Markfield 5612/3.) Granite aggregates to B.S.S., sizes 1/2" and over, and bituminous granite, concrete slabs and kerbs. Transit-mixed concrete.

CROFT GRANITE, BRICK AND CONCRETE CO., LTD., Croft, near Leicester. (Tel.: Narborough 2261—4 lines.) Kubitized granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298.) Duston 505.) (See Northamptonshire.)

ENDERBY AND STONEY STANTON GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 56682.) Quarries at: 28 Dorset St., N.W.1. (Amb. 1141.) Square, N.W.1. (Tel.: Amb. 1141.)

GRAVEL HILL SAND QUARRIES, LTD., Prior Park, Ashby-de-la-Zouch. (Tel.: Ashby 79.) Works: Harthorpe, Derbs. (Tel.: 56682.) Gravel aggregate, building sand, all to B.S.S.

HILTON GRAVEL, LTD., Hemington Fields, near Shardlow, Derby. (Tel.: Shardlow 266.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For detls., see Nottinghamshire.)

MOUNTSOREL GRANITE CO., LTD., 21 New Walk, Leicester. (Tel. 56682.) Quarries at Mountsorel, near Loughborough. (In pink granite a speciality.) London Office: 28 Dorset St., N.W.1. (Amb. 1141.)

WAKLIP GRAVELS, LTD., Wanklip Road, Syston, Leicester. Any size or grading, scientifically balanced ballast. All to B.S.S. (Tel.: Syston 2327 and 2797.)

LEICESTERSHIRE

WELFORD GRAVELS, LTD., Head Office: Goldington, Bedford. (Tel. 4587/8/9.) (See Northamptonshire.)

WREAKE VALLEY GRAVELS CO., LTD., Melfon Mowbar, (Tel.: Pits—Rotherby 205 or head office Melfon 2489.) All grades washed aggregates and sand.

LINCOLNSHIRE

BLADES AND WAITE, Waddington, near Lincoln. (Tel.: Waddington 365.) For sale any quantity of ash, stone, sand and gravel.

BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

CONINGSBY SUPPLY CO., LTD., Registered Office: The Broadway, Woodhall Spa, Lincs. (Tel.: Woodhall Spa 3150.) Screened limestone, hardcore, pitching, filling, flint, hoggins. Ex quarries or delivered.

DOW-MAC (PRODUCTS), LTD., Tallington, Stamford. All grades of washed sand and gravel. (Tel.: Market Deeping 2301.)

EAST MIDLANDS BUILDERS' SUPPLY CO., 21 Castle-dyke West, Barton-on-Humber, Lincs. (Tel.: Barton 2189.) All grades washed sand and gravel, roadstone, hardcore, washed silica sand.

GIBBONS, F. B. AND SONS, LTD., Registered Office: Welby House, Market Deeping, near Peterborough. (Tel.: Market Deeping 3321/2383.) Pits at Langto, Lincs. near Peterborough. (Tel.: Market Deeping 2210.) All grades washed sand and aggregate.

HARTSHOLME GRAVEL AND SAND CO., LTD., Hartsholme Wood, Doddington Road, Lincoln. Sole selling agents: Hartholme Sales, Ltd., 17 West Parade, Lincoln. (Tel.: Lincoln 23391.)

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For detls., see Nottinghamshire.)

PETERBOROUGH QUARRIES, LTD., Sandylands, Maxey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry site: Ropsley, all grades of hardcore and broken stone. (See also Northants.)

POLLARD, C. AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. Pits at: Tallington, near Stamford. (Tel.: Market Deeping 2140.) All grades washed sand and aggregates. For "Supercrete" ready mixed concrete, phone Market Deeping 8132.

TRENTFORD GRAVELS, LTD., Head Office: Deansgrove, Grimsby. (Tel.: Grimsby 5354.) Washed and graded gravel and sand, roadstone, hardcore, slag, tarmac, ashes, etc. Pits and quarries throughout the county.

LONDON

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detls., see Leics.)

COX, H. AND SONS, LTD., 33 Southampton Way, Camberwell, S.E.5. (Tel.: Rodney 223—3 lines.)

CROFT GRANITE BRICK AND CONCRETE CO., LTD., 128-136 High Street, Edgware, Middlesex. (Tel.: Edgware 246 and 246.) "Kubitized" granite aggregate to B.S.S., tarred and bituminous macadam, cold asphalt, "Croftmatite" Wet Mix, filter media, concrete products.

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, N.W.3. (Tel.: HAMPSHIRE 8044-8.) Granite limestone or slag, coated or dry, all sizes and pitching, granite kerbs and setts, felspar quartz and other minerals for road or rail, or London stock.

DORSET LIMESTONES, LTD., Bumpers Lane, Easton, Portland, Dorset. (Tel.: Portland 2207/8.) (For detls., see Dorset.)

DRINKWATER, W. W. (WILLESDEN), LTD., Dudden Hill Lane, Willesden, N.W.10. (Tel.: GLADSTONE 6400/5.) Pits: Rush Green, Denham, Bucks. (Tel.: Denham 2241/2/3.) Also Staines Road, Hounslow Heath, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at East Greenwich, Poplar and Wandsworth. Gravel aggregates, concreting, plastering and building sand.

KEEN, W. J. AND SONS, 18 Granville Road, Epping, Essex. (Tel.: Epping 2520.) All sands, ballasts, shingle and hardcore supplied.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) SSA Porchester Terrace North, Paddington, W.2.

READ, P. L., LTD., Gales Gardens, Bethnal Green, E. (Tel.: Shoreditch 9128/9.) All sands, ballast and shingles supplied and delivered; also ready mixed concrete. Pits: Fairlop Airfield, Forest Road, Ilford, Essex. (Tel.: Hainault 6111/2/3.)

ROADS RECONSTRUCTION (1934), LTD., Stockley Lane, West Drayton, Middlesex. (Tel.: West Drayton 3041.) All sizes broken limestone, dry and coated to British Standards.

MERIONETHSHIRE

SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

MIDDLESEX

CROSS, GEO. C. AND CO., LTD., Ironbridge, Uxbridge, near Southall. (Tel.: Southall 2264/5/6.) Sand, ballast, shingle, hardcore, ashes, etc.

DRINKWATER, W. W. (WILLESDEN), LTD., Station Road, Hounslow, Middlesex. (Tel.: Hounslow 6222/3.)

GABRIEL, C., LTD., Palmers Lane, Enfield, Middx. (Tel.: HOWARD 4351/2/3.) Washed aggregates and building sand. Pits at Enfield and Hertford.

GRUNDY, S., 79 Harrington Road, Hillingdon, Middlesex. (Tel.: Uxbridge 4156.) Sand, ballast, shingle, hardcore, ashes, excavation and demolition.

HALL AND CO., LTD., Chantry House, Eccleston Street, S.W.1. (Tel.: Sloane 7122.) and at Ashford and Brentford. Pit at Bedford, near Feltham. Gravel aggregates, concreting, plastering and building sand.

LONDON BALLAST CO., LTD. (Tel.: Paddington 5064.) SSA Porchester Terrace North, Paddington, W.2.

STUART MACEY, LTD., Gordon Road, High Wycombe. (Tel.: High Wycombe 2591/2.)

THAMES SAND AND GRAVEL CO., LTD., Fordbridge Road, Shepperton. (Tel.: Walton-on-Thames 23616.) Gravel aggregates, concreting, plastering and building sand.

WRAYSURY SAND AND GRAVEL CO., LTD., Pits at Wraysbury. (Tel.: Wraysbury 164.) Gravel aggregates, concreting, plastering and building sand.

CONTRACTORS' GUIDE TO AGGREGATES

MID-WALES

BENRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

MONMOUTHSHIRE

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.
MONMOUTHSHIRE ASSOCIATED QUARRIES, LTD., Head Office, 35 Chepstow Road, Newport, Mon. (Tel.: Newport 58311/2.) Suppliers of all grades of concrete aggregates, road metal, pitching stone, tarmacadam and bituminous macadam in limestone, dolomite and blue pennant stone. Quarries throughout the county.
WHITEFIELD QUARRIES AND BRICKWORKS, LTD., Cleford, Glos. (Tel. 3158/9.) (See Gloucestershire.)

MONTGOMERYSHIRE

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.

NORFOLK

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
FRECKENHAM GRAVEL CO., LTD., The Brook, Sutton, Ely, Cambridgeshire. (Tel.: Sutton 391/3.) Washed sand and gravel. Pitt: Feltwell.
JOHNSON, P. C. H., LTD., Station Road, Terrington St. Clement, near King's Lynn. (Tel.: Terrington 248.) Washed and screened gravel, roadstone, washed sharp and fine sands.
SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Washed and screened concrete aggregates, building sand.
THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 332434.) Washed and graded aggregates, stone and gravel delivered to all parts of Norfolk and Suffolk.

NORTHAMPTONSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon, Sutton Courtenay 279.)
THEALE, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregate to B.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BENRY AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 236.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) Producers of building and walling stone, roadstone, hardcore, broken stone, ashes, sand, gravel and hoggins. Immediate delivery throughout Northamptonshire.
FERRERS AND AGGREGATES, LTD., Northampton Road Quarries, Rushden, Northants. (Tel.: Rushden 2354/5.) Largest producers in the county of all grades of high-quality concrete aggregate to B.S. Deliveries throughout Northamptonshire and adjoining counties.
GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2393.) (See Lincolnshire for details.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)
KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay, quarries at Ketton.
MACKANESS, LTD., Ransome Road, Northampton. (Tel.: Northampton 589.) Producers of all grades of washed aggregates. Building sand, Muxmortar (lime sand mortar). Prompt deliveries.
NEWARK (PETERBOROUGH) SAND AND GRAVEL CO., LTD., 127 Eastfield Road, Peterborough. (Tel.: Peterborough 2091.) All grades washed and screened gravel and sand.
PETERBOROUGH QUARRIES, LTD., Sandylands, Mavey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Eight quarries supplying all grades of hardcore and broken stone. Also Wetmix at Yaxwell, Wansford. All grades gravel and sand at Mavey.
POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)
WELFORD GRAVEL, LTD., Head Office: Goldington, Bedford. (Tel.: 4587/8/9.) Largest producers of all grades of washed aggregates in Northamptonshire and Bedfordshire. Regular deliveries anywhere. Local office and pits: Forty Ford. (Tel.: Welford 256.)

NORTH WALES

CAWDOO, WHARTON AND CO., LTD., Platylly Gwyn Quarry, Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 27.) Crushed limestone and tared macadam, all grades.
CHESHAM AND NORTH WALES TARED MACADAM CO., LTD., Llanarmon, near Mold. (Tel.: Llanarmon-yn-Ial 43.) Hard, broken limestone; dry and coated to B.S. Inquiries to Registered Office—Market Chambers, Tower Square, Tunstall, Stoke-on-Trent. (Tel.: Stoke-on-Trent 88094.)
ENSTON BROS., Llynyn Isaf Quarry, Clynog Fawr, Caernarvon. (Tel.: Clynog Fawr 297/8.) All sizes crushed, washed natural sand and gravel. Highest quality. Precast concrete products, ex our Griffiths Crossing Factory, Caernarvon. (Tel.: Caernarvon 2535/6.) Crushed granite, ex our quarry, Pengwern and Gwydyr Quarries, Ltd., Trefriw, Llanrwst, Denbighshire. (Tel.: Llanrwst 38.)
PENMAENMAWR AND WELSH GRANITE CO., LTD., Quarries at Penmaenmawr (Tel. 2256/8), and at Trevor (Tel.: Clynogfawr 223), Caernarvonshire. All sizes and gradings of crushed granite aggregate. Any quantity per day; immediate delivery ex stock. Coated granite also available.
RUTLAND AND DENBIGH TARED MACADAM CO., LTD., Denbigh. (Tel.: Denbigh 75.) Lime, limestone, carbonate of lime, tarmacadam, etc. Also inquiries to Lunt Bros., Ltd., 23 Colmore Row, Birmingham. (Tel.: Central 408—4 lines) and Lunt Bros., Ltd., Stourbridge (Tel. 5201—6 lines).
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)

NOTTINGHAMSHIRE

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place, Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)
GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concrete sand, building sand, plastering sand and crushed gravel; could be collected ex quarry or delivered.
GUNTHORPE GRAVELS (1958), LTD., (Tel.: Nottingham 77357; and Works: Lowdham 2131.) (An associate company of T. C. Campbell, Ltd.) All grades washed gravel and sand to B.S.
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) Quarries at Hoveringham, Holme, Pierrepont, Colwick, Blosby and Newark. All grades of washed gravel and sand to any specification. Crushed quartzite for surface dressing of roads a speciality. Plant capacity 9,000 tons per day.
NEWARK GRAVELS AND CONCRETE CO., LTD., Grove Street, New Balderton, Newark, Notts. (Tel.: Newark 401.) All grades washed sand and aggregates.
SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

OXFORDSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Boars Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 279.)
THEALE, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464) for washed and graded aggregate to B.S.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
BENRY AND SONS, LTD., Botley Works, Oxford. (Tel.: Oxford 41081/2/3.) Sand and all grades of washed aggregates. Pits at Radley, near Abingdon. (Tel.: Abingdon 441.)
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)
DIX, G. H., AND SON, LTD., Freeland, Oxon. (Tel.: Freeland 236.)
DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)
GRUNDON, S. (EWELEME), LTD., Ewelme, Oxon. (Tel.: Ewelme 20.) London Office (Tel.: Uxbridge 4156.) All grades washed aggregates. Path hoggins, broken stone, building sand.
HAINES, M. (WITNEY), LTD., Oxford Road, Witney. (Tel.: Witney 42.) All grades washed aggregates, hardcore, pitching and broken stone, Cotswold building and walling stone.
SNETTERTON STONE QUARRIES, LTD., Pix Farm Lane, Hemel Hempstead, Herts. (Tel.: Berkhamstead 1208/9.) Roadstone, Cotswold building and walling stone.
WRAYSBURY SAND AND GRAVEL CO., LTD., Station Road, Theale, Reading, Berks. (Tel.: Theale 373.)

RADNORSHIRE

BENRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Quarries in Radnorshire. (Tel.: Kingston 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
BULLIMORES SAND AND GRAVEL, LTD., South Witham, Grantham, Lincs. (Tel.: Thilston 223.) Building sand, hardcore, ashes. All grades washed sand and aggregates.
GIBBONS, F. B., AND SONS, LTD., Welby House, Market Deeping, Peterborough. (Tel.: Market Deeping 3321/2393.) (See Lincolnshire for details.)
HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

RUTLAND

KETTON STONE CO. (Prop. Andrew's Garage), Ketton, near Stamford. (Tel.: Ketton 206.) Hardcore, roadstone, crushed stone, top soil, silica clay. Quarries at Ketton.
PETERBOROUGH QUARRIES, LTD., Sandylands, Mavey, Peterborough. (Tel.: Market Deeping 2355—3 lines.) Quarry at Greetham, all grades of broken stone and hardcore. (See also Northamptonshire.)
POLLARD, C., AND SON (TALLINGTON), LTD., Walk House, Langtoft, Peterborough. (Tel.: Market Deeping 2140.) (See Lincolnshire for details.)

SCOTLAND

KEIR AND CAWDOO, LTD., Kirkintilloch Road, Bishopbriggs. (Tel.: Bishopbriggs 3200.) All grades washed sand and gravel aggregates.

SHROPSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BENRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)
DUNNING AND SON, LTD., Haughmond Quarry, near Shrewsbury. (Tel.: Upton Magna 286/7.) All grades of high-quality roadstone, concrete aggregates and coated macadam. All to B.S. Any tonnage available for immediate delivery.
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (Tel.: Bayston Hill 351.) High quality roadstone, chippingstone, concrete aggregates, hardcore and coated macadam. Large tonnages always avail.
NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)
OLD RADNOR TRADING CO., LTD., Kingston. (Tel. 11.) (See Herefordshire.)
SALOP SAND AND GRAVEL SUPPLY CO., Admaston, Wellington (Tel. 961), Salop.
TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) (See Staffs. for details.)
TRENTHAM GRAVEL CO., LTD., Lordesley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed, sharp concreting sand. Plastering sand. Plant capacity: 2,000 tons per day.

SOMERSET

ASHAM QUARRY CO., LTD., Chantry, Frome. (Tel.: Nunney 351.) All sizes limestone block, broken and aggregates. Tared and bituminous macadam to B.S. Ex quarry and delivered.
DANGERFIELD, F. J., AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: HAMPSHIRE 8044/8.) For all road aggregates, kerbs, setts. (See London.)
GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)
HALL AND CO., LTD., Longmoor, Ash, Ashton Vale Road, Bristol, 3. (Tel. 63001.) Gravel aggregates, concreting, plastering and building sand.
ROADS RECONSTRUCTION (1934), LTD., Stoneleigh House, Frome. (Tel.: Frome 2361.) All sizes broken limestone, dry and coated, to British Standards. Precast concrete products.
WAINWRIGHT, JOHN, AND CO., LTD., Shepton Mallet, 2166 (Tel.: Mallet 2366/7.) All sizes basalt, coated basalt, concrete aggregates, filtering media, building blocks and slabs.

SOUTH SCOTLAND

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details see Cumberland.)

SOUTH WALES

IN-SITU CONCRETE, LTD., Victoria Works, Ebbw Vale (Tel. 3032), and Phoenix Works, Cardiff (Cardiff 63311), for limestone and slag aggregates, ready-mixed concrete, tarmacadam, media, filling, etc., kerbs and pavings.
PENMAENMAWR AND WELSH GRANITE CO., LTD., 18 Quay Street, Cardiff. (Tel.: 20646/7.) All sizes and gradings of crushed granite aggregate from our Cardiff and Swansea Dock Depots. Dolomite and granites from Ewenny Quarry, Bridgend. (Tel. 1086/7.) Coated stone also available.
SESSIONS AND SONS, LTD., West Dock, Cardiff. Producers of coarse and fine aggregate, dredged and graded to British Standards. Branches Newport and Swansea. (Also Gloucester and Hereford.)
SOUTH WALES SAND AND GRAVEL CO., LTD., Head Office: P.O. Box 8, Beaufort Buildings, Swansea. (Tel.: Swansea 53071—5 lines.) Sand and gravel merchants, builders' merchants, Penant Quarry owners, slag, hardcore, ashes, filling, graded clinker filter media. Depots: Cardiff, Newport, Barry, Port Talbot, Briton Ferry, Swansea, Llanelly.

STAFFORDSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.
BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For details, see Leics.)
CRICKER GRAVELS, LTD., Chealse, Stoke-on-Trent. (Tel.: Tean 393.) Manchester Office: Blackfriars 3766/7. Plant capacity, 2,000 tons per day.
DUNNING AND SON, LTD., Wood End Gravel Pits, Hednesford. (Tel.: Hednesford 302/325.) Washed sand and gravel. All to B.S. High-quality roadstone, concrete aggregates and coated macadam from our Haughmond Quarry, near Shrewsbury. (See Shropshire.)
GRAVEL HILL SAND QUARRIES, LTD., Ashby (See Leicestershire for details.)
HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)
HILTON GRAVEL, LTD., Chealse, Staffs. (Tel.: Tean 341.) Also at Longton, Stoke-on-Trent. (Tel.: Longton 32196) and Stratton, Burton-on-Trent. (Tel.: Burton 6061.)
HULLAND GRAVEL CO., LTD., Chealse, Stoke-on-Trent. (Tel.: Chealse 2323/4, 2119 and 2195.) Manchester Office: Hardy's Buildings, 3 Cateaton Street, Manchester, 3. (Tel.: Blackfriars 2277/8.)

CONTRACTORS' GUIDE TO AGGREGATES

STAFFORDSHIRE

RUGELEY GRAVEL CO., LTD., Rugeley Quarries, Rugeley, Staffs. (Tel.: Rugeley 251/2.) Entirely modern plant. Sand classifiers. Finest aggregates to B.S.S. Large output.

SALISBURY AND WOOD, LTD., Matlock. (Tel. 272/273.) (For details, see Derbyshire.)

SHIRE OAK GRAVELS, LTD., Lichfield Road, Walsall Wood, Staffs. Washed crushed gravel and washed sand. (Tel.: Brownhills 3253.)

TERN HILL SAND AND GRAVEL CO., LTD., Alington Quarries, near Market Drayton, Staffs. (Tel.: Hales 261/2/3.) Pit sand, concrete sand, and all grades of washed crushed gravel. Hardcore, clinkers, ashes and hoggins.

TRENTHAM GRAVEL CO., LTD., Lordsley Quarries, Willoughbridge, near Market Drayton, Salop. (Tel.: Pipe Gate 304/5.) All sizes crushed or natural washed gravel. Twice washed sharp concreting sand. Plastering sand. Plant capacity 2,000 tons per day.

WINDMILL SAND AND GRAVEL QUARRIES, LTD., Cannock Road, Wolverhampton. (Tel. 31108.) Concrete aggregates, plastering, building and asphalt sand. All to B.S.S.

SUFFOLK

ALRESFORD SAND AND BALLAST CO., LTD., Alresford Creek, near Chichester, Essex. (Tel.: Wivenhoe 341.) Suffolk area pits at Bures and Stoke-by-Nayland. All grades washed aggregate sand, also hoggins.

BARDON HILL QUARRIES (ELLIS AND EVERARD), LTD., near Leicester. (Tel.: Coalville 1226/7/8; or London: Norwood Hill 115.) (For detts., see Leics.)

DARBY'S SAND AND GRAVEL CO., LTD., Pit at Chippingham, Cambs. (See Cambs.)

DICKERSON, M., LTD., Teverham Corner, Newmarket Road, Cambridge. (Tel.: Cam. 56973/4.) (See Cambs.)

FRECKENHAM GRAVEL CO., LTD., Pit at Freckenham. (See Cambs.)

HALL AND CO., LTD., West End Road, Ipswich. (Tel.: Ipswich 55593/4.) Pits at Kesgrave and Homersfield, near Harleston. Gravel aggregates, concreting, plastering and building sand.

MACLAREN BROS. (KENNETT), LTD., Station Road, Kennett, Cambs. (Tel.: Kentford 333/4.) (See Cambs.)

ST. IVES SAND AND GRAVEL CO., LTD., 22 The Broadway, St. Ives, Hunts. (Tel.: St. Ives 2441/2/3/4.) (See Huntingdonshire for details.)

THORPE GRAVEL PITS, LTD., Harvey Lane, Norwich. (Tel.: Norwich 33243/4.) (See Norfolk.)

SURREY

COFF. HARRY A., LTD., Buckhurst Hill, Cheapside, Ascot, Berks. (Tel. 1026/7.) (See Berkshire.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

EASTWOOD SALES, LTD., Eastwood House, City Road, E.C.1. (Tel.: Clerkenwell 2040.) Longside Sand and Ballast Pit, Thorpe, near Egham. (Tel.: Egham 3121.) Producers and distributors of all grades of washed aggregates.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., Victoria Wharf, Croydon. (Tel.: Croydon 4444.) Other main depots at Coulsdon, Epsom, Mitcham, Oxted, Purley, Redhill, Tadworth and Woking. Pits at Send and Reigate. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., Kingston Road, Leatherhead, Surrey. (Tel. 3497.) (See Sussex.)

JANES AND CO., LTD., 2C Buckingham Avenue, Slough. Sand, aggregates, hardcore, ashes, bulldozing & bulk excavation. (Tel.: Slough 20361/2/3.)

LONDON BALLAST CO., LTD., (Tel.: Paddington 5064.) SSA Porchester Terrace North, Paddington, W.2.

MARCO (AGGREGATES), LTD., Pit: Norlands Lane, Thorpe, near Egham. (Tel.: Chertsey 3401.) Producers and distributors of high-grade washed sand, shingle, ballast, etc.

MARCO (CROYDON), LTD., Hampton Road, West Croydon. (Tel.: Thornton Heath 4236/7/8.) All building and road aggregates.

WELLS, A. L., AND SON, LTD., Builders' Merchants, Garlands Road, Leatherhead. (Tel. 3018/9.) Sand aggregates, hardcore, ashes, cement. Clinker block manufacturers.

SURREY

WINTON, WM. R., LTD., Send, Woking. (Tel.: Ripley 2454/5.) All grades sand, shingle, ballast, hoggins and ashes. Clinker block manufacturers.

SUSSEX

AVANN, F., Cavendish Avenue, Eastbourne. (Tel. 4969/70.) Washed and graded ballast, sand, bricks, breeze and concrete blocks, hardcore, clinker, tarmac, etc., supplied.

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

HALL AND CO., LTD., 16 Chapel Road, Worthing. (Tel.: Worthing 7840.) Other main depots at Bexhill, Bognor, Crowborough, East Grinstead, Eastbourne, Horsham, Hove and Seaford. Pits at Washington, Crumles, near Eastbourne, Chichester, Rye Harbour, Midhurst, Shoreham and Portslade. Gravel aggregates, concreting, plastering and building sand, Surecrete precision-mixed concrete.

HARRIS, M. P., AND CO., LTD., West Station Goods Yard, Bexhill (Tel. 61); Cavendish Place, Eastbourne (Tel. 3800); Dominion Road, Worthing (Tel. 8822); Station Goods Yard, Haywards Heath (Tel. 2211); Crawley Road, Horsham (Tel. 3366); The Hornet, Chichester (Tel. 4181). All grades aggregates, hardcore, clinker, ashes, etc.

WRIGHT, C., AND SONS, (BTON), LTD., 19 Bristol Gardens, Brighton, 7. (Tel.: Brighton 63357 and 62406.) All-in ballast, washed and crushed shingle, sand, ashes, hardcore, chalk, bricks, etc.

WARWICKSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BRUNTINGTHORPE GRAVELS, LTD., Gilmorton, near Rugby. (Tel.: Lutterworth 46.) All sizes gravel aggregates, building and concrete sand to B.S.S., scientifically balanced ballast.

COOPER, J. A. (TRANSPORT), LTD., Hurley, near Atherstone, Warwick. (Tel.: Hurley 225.) Shale pit at Newdigate Colliery, Bedworth, near Coventry. Shale, hardcore and clinker ash as dug or graded. Delivered to site or loaded into customers' own vehicles by arrangement.

DUSTON STONE QUARRIES, LTD., New Duston, Northampton. (Tel.: Brixworth 278 and 298; Duston 505.) (See Northamptonshire.)

HALL AND CO., LTD., 188 Lichfield Road, Four Oaks, Sutton Coldfield. (Tel.: Four Oaks 355.) Gravel aggregates, concreting, plastering and building sand.

HARRABIN, W. H., AND SONS, LTD., Navigation Bridge, Stone, Stanton Road, Coventry. (Tel. 89439.) All materials, granites, hardcore, kerbs and flags, gravels, sands, ashes, setts, etc.

JUDKINS, LTD., Quarries, Tuttle Hill, Nuneaton. (Tel.: Nuneaton 3411—10 lines.) All sizes washed granite aggregate, tarrad and bituminous macadam. Slab mix a speciality.

WELFORD GRAVELS, LTD., Heat Office, Goldington, Bedford. (Tel. 4587/8/9.) (See Bedfordshire and Northamptonshire.)

YEOMANS, G. R., LTD., Oxford Road, Ryton-on-Dunsmore, near Coventry. (Tel.: Coventry 101bar 2376/7/8.) Shale, hardcore—as dug or graded. Loaded into vehicles or delivered to site.

WESTMORLAND

BROOMBYS, LTD., Sandside, Milnthorpe, Westmorland. (Tel.: Milnthorpe 3251/2.) All grades washed granite, gravel sand, limestone, granite chippings, pitching, tarmac, rockery stone, etc.

ESK MANUFACTURING CO., LTD., Carlisle. (Tel.: Carlisle 2-4941.) (For details, see Cumberland.)

WILTSHIRE

AMEY'S AGGREGATES, LTD., Lower Wootton, Bours Hill, Oxford. (Tel.: Oxford 35421—10 lines.) Pits at Dry Sandford, near Abingdon, Sutton Courtenay, near Abingdon. (Tel.: Sutton Courtenay 275.) Theale, near Reading. (Tel.: Theale 358.) Dorchester, Oxon. (Tel.: Clifton Hampden 236.) Billing, Northampton. (Tel.: Cogenhoe 464.) for washed and graded aggregates to B.S.S.

WILTSHIRE

BULL BROS., S. AND L., LTD., 126A High Street, Winchester. (Tel. 2264.) (See Hampshire.)

COKE, T. F. (CHELTENHAM), LTD., 267 Gloucester Road, Cheltenham. (Tel. 4717/4874.) (See Glos.)

DANGERFIELD, F. J. AND CO., LTD., 261A Finchley Road, London, N.W.3. (Tel.: Hampstead 8044/8.) For all road aggregates, kerbs, setts. (See London.)

GILSON, S. C., AND SONS, LTD., Holcombe, near Bath. (Tel.: Stratton-on-the-Fosse 243.)

MOREYS (VERWOOD), LTD., Verwood, Wimborne, Dorset. (Tel.: Verwood 234.) Concrete aggregates, building sand, hoggins, path gravel.

POOLE (LECHLADE), LTD., Gravel Pit, Burford Road, Lechlade, Glos. (Tel.: Lechlade 219.)

TAYMAC, LTD., Wootton Bassett. (Tel. 391—5 lines.) Pits at Lacock (Tel. 304), Wilts.; Fairford and Poulton, Glos. (Tel.: Fairford 365/6.) Washed crushed and graded aggregates. Washed and screened building sand. Graded clinker media.

WORCESTERSHIRE

BALLIDON QUARRIES, LTD., Ballidon, near Ashbourne, Derbyshire. (Tel.: Parwich 201 and 202.) Clean and graded dry limestone to B.S.S., all sizes, coated limestone to B.S. 802 and 1621 and wet-mix; large output; reliable deliveries.

BENGRY AND SONS, LTD., Longmoor, Kingsland, Leominster, Herefordshire. (Tel.: Kingsland 301/4.) (See details under Herefordshire.)

DUNNING AND SON, LTD. (See Shropshire.)

HARPER AND THOMAS, LTD., Bayston Hill Quarry, Shrewsbury. (See Shropshire for details.)

NASH ROCKS STONE AND LIME CO., LTD., Presteigne, Radnor. (Tel.: Presteigne 352.) (See Herefordshire for details.)

OLD RADNOR TRADING CO., LTD., Kington. (Tel. 11.) (See Herefordshire.)

YORKSHIRE

BRAITHWAITE, A., AND CO., LTD., Conyngham Hall, Knaresborough. (Tel.: Knaresborough 2286.) Quarries at Knaresborough (Tel.: Knares, 2286) and Catterick (Tel.: Old Cat. 157.) Washed, crushed and graded concrete aggregates to B.S. Specification. Output 2,000 tons daily. Ready-mixed mortar and ready-mixed concrete also available.

BURROWS BROTHERS (EXCAVATIONS), LTD., Market Place Chambers, West Bars, Chesterfield. (Tel. 7130.) (For details, see Derbyshire.)

DENNIF, ALAN S., LTD., Kiveton Park, near Sheffield. (Tel.: Kiveton 446/7/8.) Truck-mixed and pre-mixed concrete, washed and crushed gravel, concreting sand, building sand, crushed and graded stone.

GLEN QUARRIES, LTD., Central Chambers, Wellgate, Rotherham. (Tel.: Rotherham 5223.) Crushed and graded stone, concreting sand, building sand, plastering sand and crushed gravel could be collected ex quarry or delivered.

HOVERINGHAM GRAVEL CO., Hoveringham, Nottingham. (Tel.: Lowdham 3171—15 lines.) (For details, see Nottinghamshire.)

SALISBURY AND WOOD, LTD., Matlock. (Tel.: 272/273.) (For details, see Derbyshire.)

STANLEY FERRY GRAVEL CO., LTD., Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 26361.) Washed, crushed and natural graded sand and gravel. Supplies to specification, large daily production centre of Yorks. West Riding market. Pit: Wakefield.

WELBECK SAND AND GRAVEL CO., Parkhill, Wakefield. (Tel.: Wakefield 4454.) Washed sand and gravel.

WEST RIDING GRAVEL CO., Norwich Union Building, City Square, Leeds, 1. (Tel.: Leeds 25362.) Modern 1,000-ton daily plant produces washed grit and soft sands. All aggregates to specification. Competitive Yorks. West Riding to Lancs. border. Pit: Wakefield.

WHITAKER, B., AND SONS, LTD., Elland Road, Leeds. (Tel.: Leeds 75207.) Washed, graded sand and gravel. Aggregates supplied to specification. Quarries at Wakefield, Ripon, Masham.

X.L. GRANITE (INGLETON), LTD., Head Office: Clapham, via Lancaster. (Tel.: Clapham 318/9.) Works Tel.: Ingleton 231. All sizes and gradings of Ingleton granite aggregate.

SUBSCRIPTION ORDER FORM

To THE CONTRACT JOURNAL CO. LTD.,
32 SOUTHWARK BRIDGE ROAD, LONDON, S.E.1

Please forward "THE CONTRACT JOURNAL" each week or which
I/we enclose £

SUBSCRIPTIONS

£5 - 4 - 0
per year, post free
£2 - 12 - 0
half-yearly, post free
Payable in Advance

Name

(BLOCK LETTERS)

Full postal address

(BLOCK LETTERS)

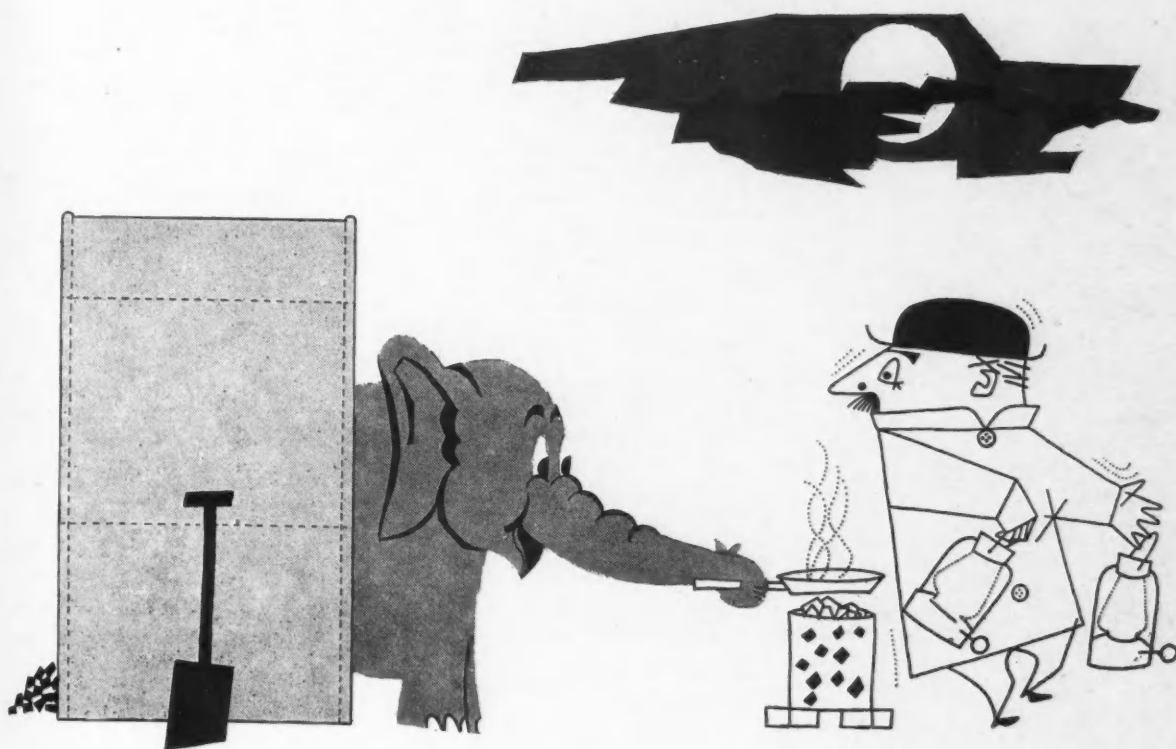
Occupation/Business

(For Readership Classification Purposes Only)

4219

THE INDEX TO DISPLAYED ADVERTISEMENTS WILL BE FOUND ON PAGE 544

London: Printed and published by the Proprietors, The Contract Journal Company, Ltd., 32 Southwark Bridge Road, S.E.1.
Thursday, May 5, 1960. Registered at the General Post Office as a newspaper.



. . . but for complete protective cover

JOHN SMITH

TARPAULINS—SHELTERS—COLLAPSIBLE LORRY TILTS

with immediate delivery



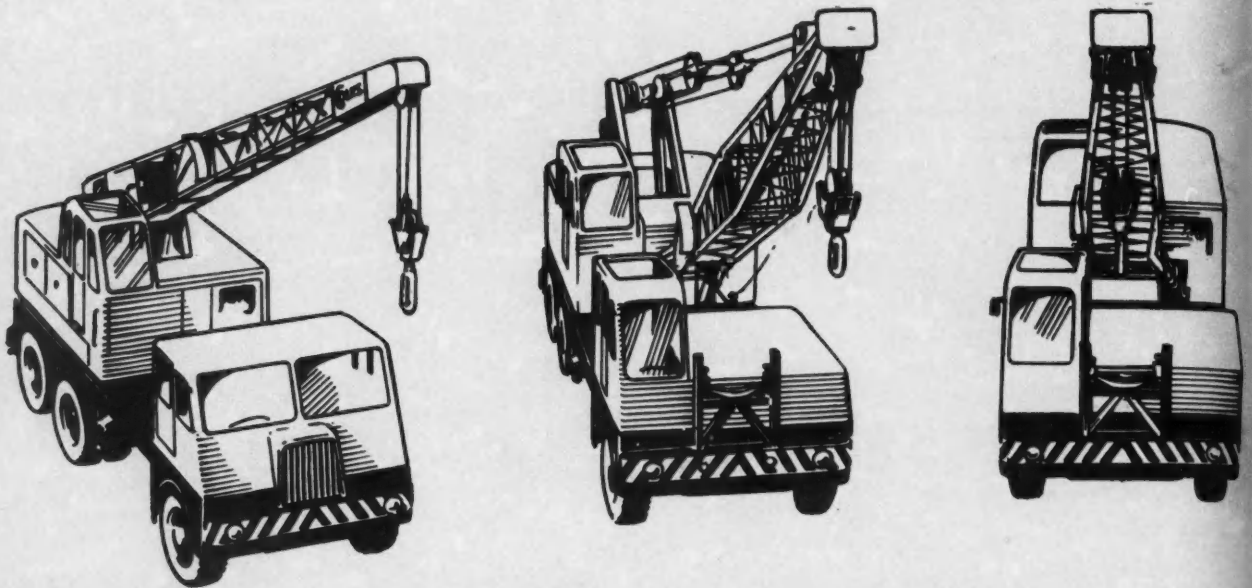
JOHN SMITH & CO. (LONDON) LTD.

Head Office & Works: Hainault Works, Chadwell Heath, Romford, Essex.

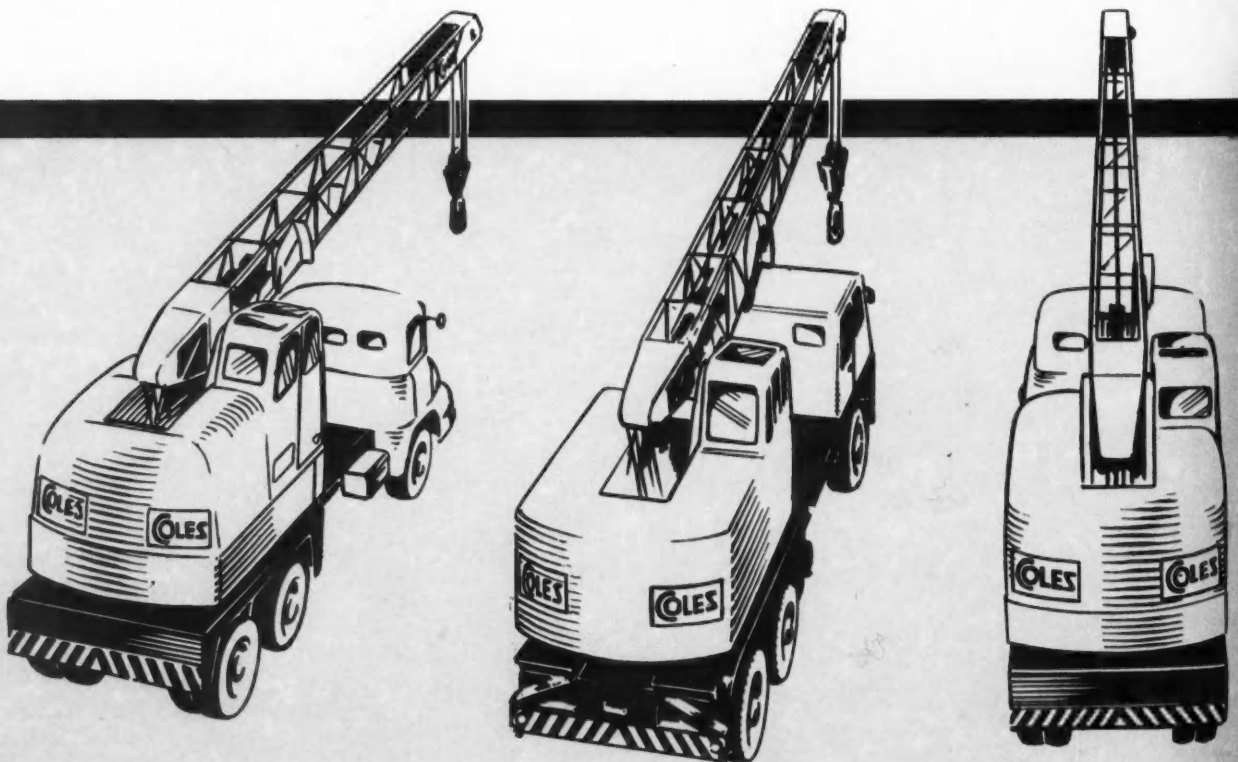
Branch Office & Works: Lower Holmes Street, Cadoxton, Barry, Glam.

Telephone: Seven Kings 6070 (10 lines)

Telephone: Barry 2372



**Wood, Pritchett & Partners Ltd., order
another ten Coles Diesel-Electric
Truck Mounted Cranes for their new depot**



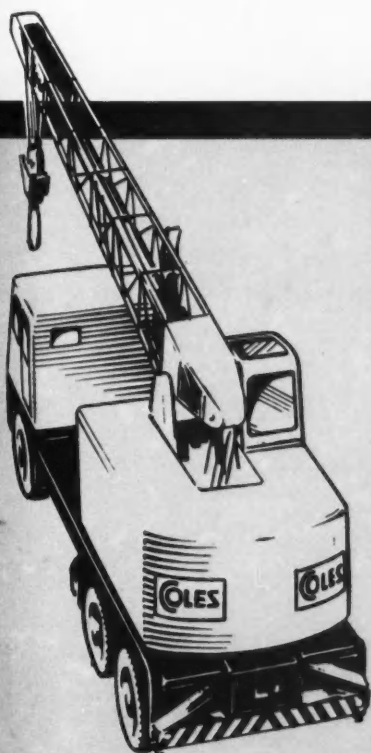


**THE NAME THAT
CARRIES WEIGHT**

* REGISTERED TRADE MARK

This new Depot opens in MAY. It is on A2— $1\frac{1}{2}$ miles on the London side of Dartford. Wood, Pritchett & Partners Ltd., are determined to enhance and maintain the excellent reputation of their MECHQUIP hire fleet by using the best machines available on the market.

COLES *
CRANES



Designed, manufactured and marketed by:—

**STEELS ENGINEERING
PRODUCTS LIMITED,
Sunderland, England.**

SALES AND SERVICE:
London, Birmingham,
Manchester, Newcastle
and Glasgow.

British industry buys

Jones cranes

because they are

RELIABLE

VERSATILE

EFFICIENT, FAST

AND ECONOMICAL

SPECIAL CREDIT FACILITIES · 3 YEARS' GUARANTEE · UNEQUALLED AFTER-SALES SERVICE



Distributed in the United Kingdom by

GEORGE COHEN SONS & CO. LTD., Wood Lane, London, W.12

Designed, Manufactured and Exported by their Associates

K & L STEELFOUNDERS & ENGINEERS LTD., LETCHWORTH, HERTS.

50

S

L

VICE

W.12

RTS.